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and

Complete Catalogue

1890.

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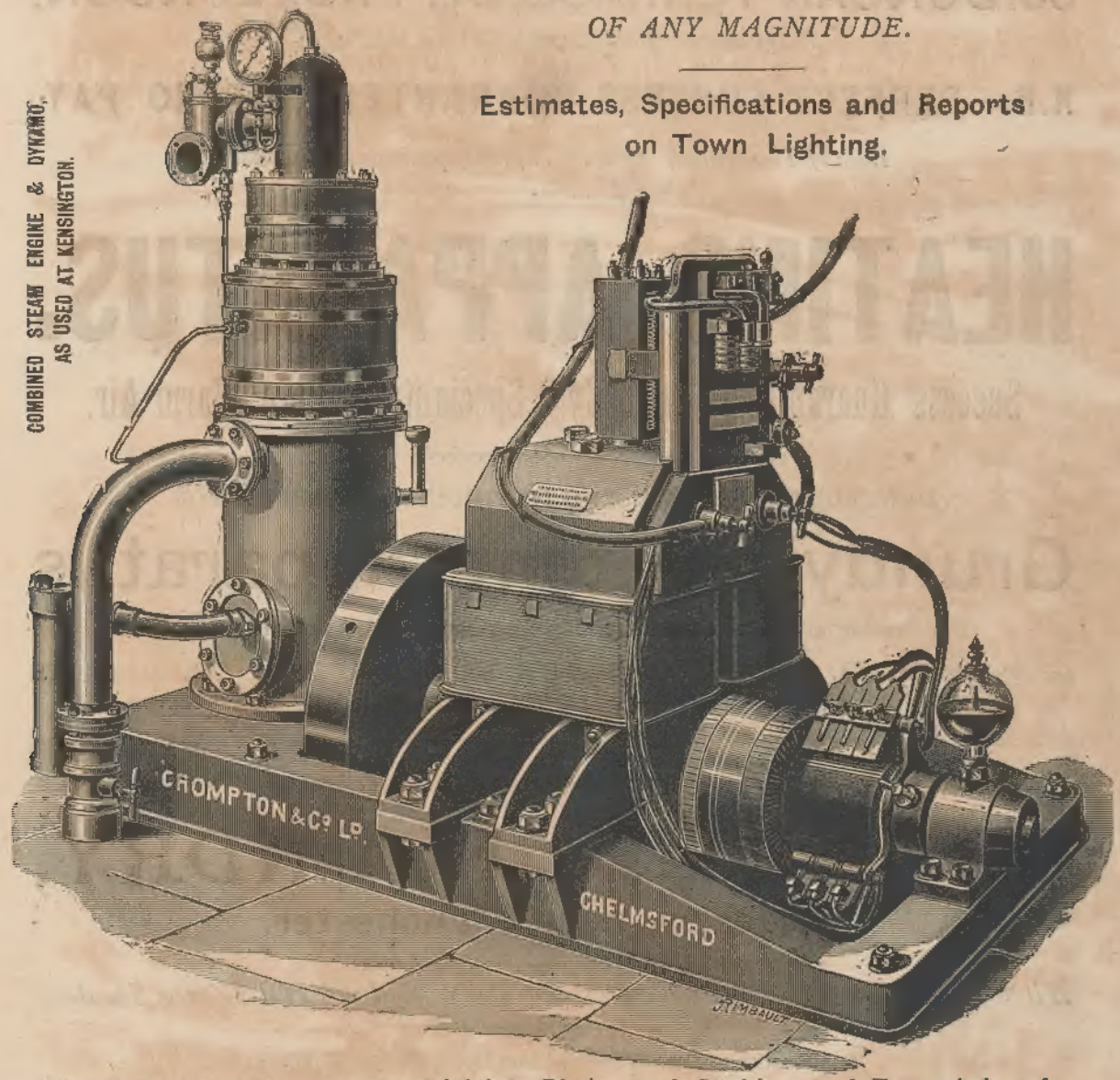

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J. HOWARD COLLS,
President of the National Association of Master Builders.

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THE

CONTRACTORS'

OMPENDIUM,

AND

Complete Catalogue

EDITED BY

JOHN EDWARD SEARS,

Fellow of the Royal Institute of British Architects.

FRONTISPIECE PORTRAIT

J. HOWARD COLLS,

President of the National Association of Master Builders.

FOURTH ANNUAL ISSUE.

1890.

PUBLISHED UNDER COST PRICE, 5/- VALUE, 15/-

London:
THE COMPENDIUM PUBLISHING COMPANY, 16, New Bridge Street, E.C.
Melbourne:
GRONDONA & Co., Ltd., 64, King Street.

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PREFACE.

THE present volume takes a different form to previous issues of this COMPENDIUM. The suggestions received, together with the desirability of giving information having an annual character, have led to the introduction of new features which it is hoped will lend interest and freshness to each successive issue of the work, and at the same time increase its practical usefulness for reference.

The new features and improvements appearing in this issue are, briefly:—

1. ILLUSTRATIONS.—*Comprising a Portrait of* J. HOWARD COLLS, *President of the National Association of Master Builders, as Frontispiece; a coloured plate, being a reproduction of a Water Colour Drawing by* ALFRED WATERHOUSE, R.A., *and Illustrations of Modern Architecture in Great Britain and Abroad.*

2. *A Price Book, drawn up on the lines of a Bill of Quantities.*

3. *Acts of Parliament and Legal Decisions of the year.*

4. *Sales of Property of the year.*

5. *The more effective division of the* COMPLETE CATALOGUE *into Sections by a Title Page to each Section of a different tint to the body of the Catalogue.*

6. *The provision of space for personal notes at each division throughout the work.*

7. *The printing of the* COMPLETE CATALOGUE, *the* INFORMATION, *and the* INDEX, *on paper of different tints.*

We are gratified by the great interest taken in the work, and are indebted to the Architects who have kindly nominated Builders for the Address Register, 1,100 having forwarded nominations, and on pages 9 and 10 are given a few extracts from letters of approbation.

Our thanks are due to Mr. COLLS for his kindness in giving a sitting for his Portrait as frontispiece, and to Mr. WATERHOUSE for lending the Water Colour Drawing of the staircase in the Hotel de Ville aix les Bains for reproduction.

The principal feature of this work, "THE COMPLETE CATALOGUE," has received unqualified approval exceeding our most sanguine expectations, and this new plan for placing the contents of circulars and catalogues in a convenient form for the reference of those using building appliances, is appreciated alike by the profession and manufacturers, to the latter of whom it has been of considerable value. Although it may not be always possible to trace benefits from advertising, especially where the goods are not ordered direct,

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distinct returns have been received from announcements in this work, and in some cases firms who issue particulars of their goods in no other way have had their business extended by their announcements in the CATALOGUE. The largely increased and renewal orders also confirm the many statements we have received of the benefit accruing from the work.

Too much importance cannot be attached to the desirability of giving full particulars, illustrations and prices of all goods advertised, instead of announcements being inserted in advertisement form.

The paging of the Work is irregular in parts owing to alterations and extension of Advertisements after it had been made up and partly printed; and some firms had to be refused who forwarded copy too ate. Two plates and some pages arranged for could not be completed in time owing to the prevailing illness, hence one or two folios are missing.

There may possibly be other imperfections due to the rapidity with which the book has been produced; where such occur we ask the kind indulgence of our readers.

It is our desire to place an increasingly useful work of reference in the hands of the profession, and to enable us to do so we shall prize the co-operation of all connected with the Building and Engineering trade.

The following current publications have been referred to for information, illustrations, &c.:—

The Builder.
The Building News.
The Estates Exchange Reports.
The Estates Gazette.
The American Architect and Building News.
Encyclopédie d'Architecture.
Zeitschrist für Bauwesen.
&c., &c.

AUSTRALASIAN DEPARTMENT.

The growing importance of the Colonial Trade has led us to make arrangements to conserve the interests of the profession in the Colonies on the one side, and on the other to endeavour to extend the relations of our British Manufacturers over the Southern Hemisphere. The Australasian Agency has been placed in the hands of Messrs. GRONDONA & CO., LIMITED, 64, King Street, Melbourne, who will be prepared to supply the COMPENDIUM and make contracts for advertisements in the Colonies. To our English Manufacturing friends, we are sure that great advantage will accrue from this new departure, as Messrs. GRONDONA & CO., LTD., is a Company composed for the most part (in addition to several of the leading Melbourne Architects) of Traders connected with Building, &c. Messrs. GRONDONA will be pleased to give our English Subscribers and Advertisers the fullest information respecting the Colonial Trade in its varied branches. This is an excellent opportunity for Manufacturers to open up or to extend their connection in the Colonies.

THE EDITOR.

All communications intended for the Editor to be addressed to

JOHN ED. SEARS, F.R.I.B.A.,

THE COMPENDIUM PUBLISHING OFFICES,

16, *New Bridge Street, London, E.C.*

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This Compendium is prepared on similar lines to the Architects' Compendium of which the following opinions are taken from 1,500 letters received in approbation.

ALFRED WATERHOUSE R.A.
(*President of the Royal Institute of British Architects*)

Renders advertisements useful in a way they have not been hitherto.

THOMAS NADEN, Esq
(*President Birmingham Architectural Association, 14, Temple Row, Birmingham.*)

I cannot speak in too great praise of the ARCHITECTS' COMPENDIUM as a reference for Manufactures in the Building Trades. Most of the loose sheets sent to Architects find their way to the waste-paper basket, but this useful book can be used for constant reference . .

THOMAS H. FLEMING, *Architect,* **Wolverhampton.**
(*Extract from Letter to a Manufacturer*).

If you do anything in advertising, or wish to push your manufactures before Architects, &c., I do not know of any means so likely to benefit you as advertising in this work.

JOHN COTTON, *Architect,* **Birmingham**

The collection of advertisements of Manufacturers Specialties, with the good Indexes thereto, is a capital feature. It is as a book for ready reference in all practical building matters that its merit lies. Manufacturers should name prices whenever possible.

THOMAS VERITY, F.R.I.B.A.

Of great service to the profession.

H ROUMIEU GOUGH F.R.I.B.A., F R H.S.
(*Late President of the Society of Architects*).

It is an exceedingly useful book. Scarcely a day passes but some catalogue or trade list comes to me, but when wanted they are almost impossible to be found. Often a single sheet advertisement shows something I think of using but when the time comes I have lost it, and cannot remember the name of the advertiser If we could have all these in a book, with an index, which we have always in use we should at any time be able to find what we want, and advertisers would not throw their money away in circulars, which, if not thrown into the waste-paper basket at once, might just as well be, because never to be found when wanted

DOUGLAS J WILLIAMS, *Architect,* **Birmingham.**

It is a book which was badly wanted, and will save searching up old catalogues issued by the manufacturers, and which could not be bound together on account of their various sizes.

WM J JENKINS, *Architect* **Bodmin.**

It will be a pleasure to refer to it when specifying goods. One great burden has been the number, variety, and size of the various books, lists, &c Now, one takes your book and can find almost everything in a few seconds.

JOHN SLATER, Esq. F R.I B.A.

Of great benefit to Architects and all connected with building.

ALEXANDER & GRADON, *Architects,* **York**

A very useful production, and will, in a great measure, save the toil and trouble of going through the accumulation of trade lists of various sizes, which has long been a most distasteful, yet necessary, duty of the Architect of the present day

ALEXANDER HUTCHESON, *Architect,* **Dundee**

Such a comprehensive reference to the multitudinous manufactures now used in building work, cannot but be of daily service to Architects and Engineers.

F. W. EDWARDS, *Architect* **Plumstead**

I was showing your ARCHITECTS' COMPENDIUM to a War Department Surveyor this morning, who is very anxious to obtain a copy. If your presenting such a valuable work to the profession is with a view of giving advertisers a means of bringing their specialties to notice, it certainly bore fruit on this occasion, as the gentleman was enquiring for a firm who supplied jib cranes, and I was enabled to give him the information from your book.

GEORGE WATSON, *Architect,* **Penrith.**

A very complete work, and calculated to be of great service to Architects, while it must advance the interests of inventors and manufacturers.

USHER & ANTHONY, *Architects,* **Bedford**

A most useful work, and will save Architects a lot of time and trouble in hunting up price lists, &c., &c., which can never be found when wanted.

G. G HOSKINS, F.R.I B.A. Darlington

Allow me to congratulate you upon its production. As a work of reference I shall find it of much use.

DANIEL CAMERON, *Architect,* **Inverness**

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F N TASKER, *Architect,* **Brighton.**

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One of the most valuable books any Architect can possibly have in his office.

CHAS KIRK & SONS, *Architects,* **Sleaford.**

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H. H BRIDGMAN, F R.I.B A., London

My difficulty always has been to keep together the various illustrations and information relating to building work that should be readily accessible Your COMPENDIUM meets this need in an admirable manner.

GEO. BUCKLEY & SON, *Architects,* **Halifax**

Having extensive properties in our hands in various parts of our district, it looks likely for proving of great use to us.

SIR A. W. BLOMFIELD, M.A., F.S A.,
Vice-President R.I.B.A.

A very useful book.

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W. H. PRICE, *Architect,* **Bristol.**

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SILVANUS TREVAIL, *Architect* **Truro**

Three of the advertisers in it have already profited to the extent of an order a piece through the possession of the Catalogue by myself.

J. T. WHEEN, *Architect,* **Sheffield.**

For a number of years I felt the want of such a work, and adopted a somewhat similar arranged index with loose packets, at the cost of a considerable amount of labour, which such a book as yours would have saved.

TREEHARNE, REES, & SONS, *Architects,* **Newport, Mon.**

We consider it the most useful trade reference we have seen.

J. P. MUMFORD, *Architect,* **Llanrug**

I have a great many books in my library, but I consider the one you have kindly presented me with to be the most useful of the lot.

W H CHEADLE, *County Surveyor,* **Stafford.**

I have already put it to use.

JAS PARKINSON, *Architect,* **Turton, near Bolton.**

Its value to advertisers cannot, I am sure, be overestimated, as anyone who has experienced the annoyance of having to hunt up some advertised specialty will agree that those articles most readily referred to are likely to be quoted.

J MONROE, *City Surveyor,* **Belfast.**

It is just such a work as I have long since said was required. Over and over again I have told travellers that the system of sending loose sheets is a very bad one, they are always lost, but your book has all so well arranged that I could not refrain from writing thus.

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A. MAITLAND & SONS, *Architects*, Tain

We hope to have the pleasure of introducing a number of the manufactures so well illustrated in it in our specifications

J. C. EGGAR, *Architect*, Banbury.

I consider it a most useful work, and shall quote from it on all available occasions.

A MARDEN MOWBRAY, F.R.I.B.A., Oxford

I saw one at Mr Henry Cooper's offices last Saturday, at Maidenhead, and he highly commended it for reference.

ARTHUR CATES, F.R.I.B.A

(*Vice-President of the Royal Institute of British Architects*)

Your handbook is very useful. . . Of great service to those firms who have availed themselves of its publicity

H. H. COLLINS, F.R.I.B.A.

Of great use to every member of the profession as also to builders.

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The one difficulty we have to contend with is the enormous mass of printed matter which daily finds its way on to our office desks, and which, for want of time, goes into the waste-paper basket, the good with the bad.

E. CLERK ALLAM, A.M.I.C.E., &c., &c.,

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Very useful in the office, and saves the necessity of a great litter of manufacturers' catalogues.

R. NORMAN SHAW, R.A., &c.

Of the greatest value. Manufacturers' catalogues are of very little use, and go freely into the waste-paper basket, as they are so numerous that it would be impossible to keep them, and unless kept systematically they would be of no use. At least, I know when I set to work to find a name or address I rarely succeed.

CHARLES BARRY, F.S.A., F.R.I.B.A., Westminster

I beg to thank you for your very valuable work, and for the copy for my son, Mr. C. E. Barry, who is in Washington, and to whom it shall be sent

GEO. M. COULSON, *Architect*, Derby.

Of the greatest value for reference, and I beg to congratulate you upon the excellent way in which the work has been produced.

J. HOWARD PENTLAND,

Architect Office of Public Works, Dublin

We got four of your books for the department.

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It has been of great assistance to me as a book of reference for the various trades.

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I congratulate you upon the production of so useful a volume.

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Contains much information which is constantly required by Architects.

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A work long wanted, and will, I am sure, be appreciated by the profession.

OCTAVIUS HANSARD *Member of the Council of the R.I.B.A.*

Of material service, and would be of value not only to the Architect, but would certainly bring before him with the least possible labour, what Inventors, Manufacturers, and Tradesmen have to present, without the nuisance of innumerable circulars and catalogues which, as a rule, find their way into waste paper baskets, and rarely are taken notice of by those to whom they are intended to convey information, and thus are lost sight of, putting the Advertisers to great trouble and expense, and the professional man at a loss to find the article or material he is in search of when the time arrives for its application.

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Let me congratulate you on a book so useful to the profession.

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A great advantage to those manufacturers whose work is thus prominently brought before our notice.

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The work is most useful for reference, and must save time, and facilitate work both for Architects and producers.

EDGAR FARMAN,

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A most valuable work of reference for all matters and wants connected with the daily routine of an Architect's office.

C. HODGSON FOWLER, F.S.A., Durham.

It appears to be a wonderfully complete collection of all the information required in general practice.

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It is exceedingly well got up, and will be of great use to the profession, and of real benefit to advertisers

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I consider it a most excellent publication.

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It is what we often wished for. It saves a great deal of time in looking up circulars, advertisements, &c. In this office we may state that it has become a book of daily reference.

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I have had occasion to use it already. The idea is a very good one.

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It is an excellent work. It is a trouble to keep the mass of illustrated catalogues, of all sizes and shapes, in anything like good order; consequently your book is sure to be the first to seek for information, and the more the trade use it to give illustrated details of their goods the better it will be for them.

VERNON PIKE & TASKER, *Architects*, London.

We think it is a book that should be in the hands of all Architects.

ROWLAND PLUMBE F.R.I.B.A., London.

It seems to me to be a useful compilation, and, as I presume it is intended to circulate it among Architects I shall certainly take all opportunities of making it known to all manufacturers with whom I have dealings.

GEO. W. WEBB, A.R.I.B.A., London

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Extremely useful, and just the book wanted.

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I have often complained of the variety and sizes of trade circulars, which make it so difficult to keep them well arranged: this will be a grand step towards the cure of that, as by degrees we shall get rid of the ordinary trade catalogues and keep only your book.

WM. MILBURN Jr., *Architect*, Sunderland

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F. DAVIES, *Architect*, Shrewsbury

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McLAUGHLIN & HARVEY, *Builders and Contractors*, Belfast.

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J. T. LAWRENCE, *Architect*, Leighton Buzzard

I have already found it very useful.

ED. W. ROBB, *Architect*, St. Ives, Hunts

It now bids fair to develop into a very useful book of reference, and if it prevents Architects being flooded with trade circulars, which puzzle his ingenuity to keep so as to be able to find what he wants readily, and, at the same time, saves manufacturers a lot of expense, it will be a very good thing, and I think it promises fair to do this.

ROMAINE, WALKER & TANNER, *Architects*, London.

A convenient substitute for the voluminous heaps of trade catalogues which accumulate in an office

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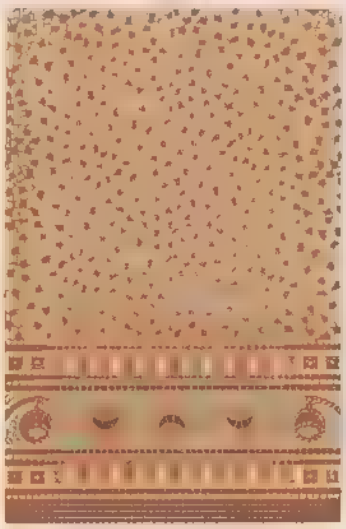

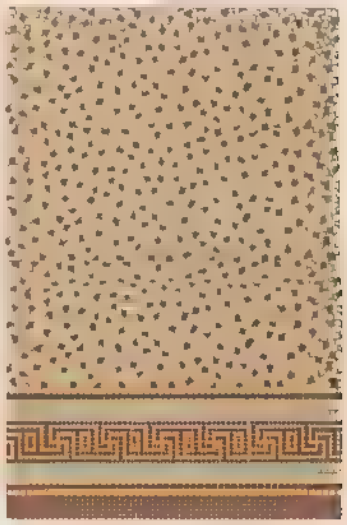

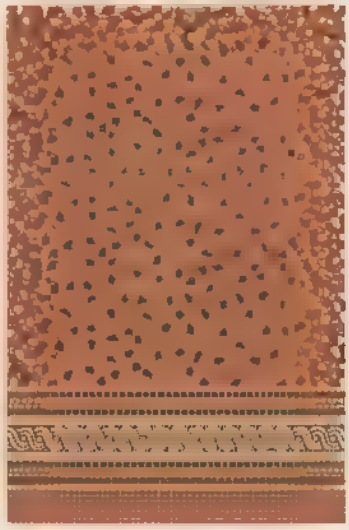

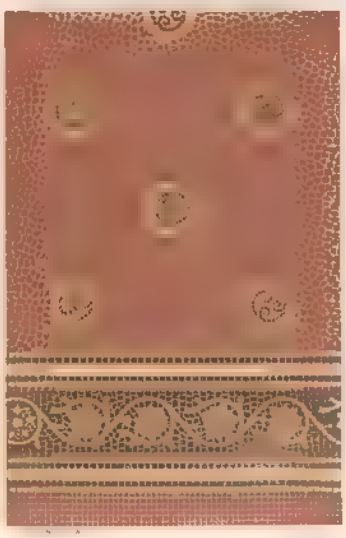

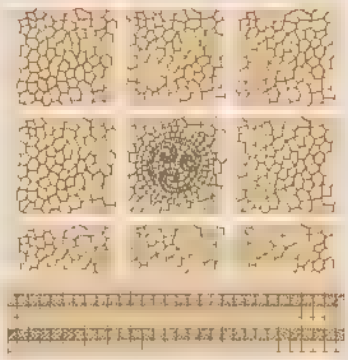

Diagram, to an enlarged scale, of the Tiles detached one from the other, illustrating the interlocking arrangement

SCALE ONE INCH TO A FOOT

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PLATE ILLUSTRATIONS.

Frontispiece: PORTRAIT OF J. HOWARD COLLS, *President of the National Association of Master Builders.*

Coloured Plate: STAIRCASE IN THE HOTEL DE VILLE, AIX LES BAINS, WATER COLOUR DRAWING, BY ALFRED WATERHOUSE, R A *Facing page 14.*

MODERN ARCHITECTURE.

ENGLAND—

WICK VICARAGE, PERSHORE, ASTON WEBB, *Architect.* *Page 17.*

ADDITIONS TO SCHOOLS, BROMLEY, KENT, POTTS, SULMAN & HENNINGS, *Architects.* *Page 17.*

ORGAN CASE, CHURCH OF ST. MARY'S, PORTSEA, SIR A W. BLOMFIELD, A.R.A., *Architect.* *Page 17.*

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PLATES OF MANUFACTURES.

MAW & CO.'S PATENT INTERLOCKING MOSAIC TILES FOR PAVEMENTS.

Facing this Page

Messrs. MAW & Co are introducing "Interlocking Mosaic Tiles" manufactured under their patent, which have all the appearance of ordinary Marble Mosaic, but are much easier to lay and far more durable than marble. The excellency of Messrs. MAW & Co 's work is again apparent in the designs and colouring of the patterns shown in their plate, and there can be no doubt that these Mosaic Tiles, so convenient in their form, are likely to command a large sale, and prove an important addition to the Tiles at present used for decorative pavements.

LUSTRE TILES.

By J. C EDWARDS.

Facing Page 88.

This Tile plate illustrates the brilliant "Lustre Tiles" manufactured by J. C EDWARDS, of Ruabon. The beauty of the designs is admirably shown by the Tiles forming the plates. They rival the finest mediæval Italian and Spanish examples, combining with the gorgeous effects of burnished metals the iridescent colours of the rainbow. These Tiles are made for fire-places, wall decoration, cabinet work, &c., &c.

HEARTH TILES

By G. WOOLLISCROFT & SON.

Facing Page 104.

The pattern sheet inserted by Messrs. WOOLLISCROFT & SON in this issue contains a few specimens of the Hearth-Tile Designs shown in their Illustrated Catalogue.

The centre panels consist of selections from their "Decorative Art Tile" patterns arranged with 12" × 6" and 6" × 6" Tiles, and may be varied if desired. The principal feature in these Tiles is the subdued colours used in the Decoration, the effect of which is greatly enhanced by the peculiarly rich and soft tone of the glaze.

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The enamelled coloured strips combined with them to form the hearth are as near a representation as possible of the colours sent to the lithographers, but are in no way representative of the diversity of tones and colours Messrs. WOOLLISCROFT & SON are able to produce.

STAINED AND BRILLIANT CUT GLASS, FAIENCE, &c.

By C. EVANS & CO.

Pages 162 *to* 167.

The manufactures illustrated by Messrs C EVANS & Co. comprise their Stained Glass and Brilliant Cut Glass, Architectural Faience, raised and enamelled Tiles, Capitals, Dadoes, &c.; Underglazed Tile Panels with Faience, and raised tile surroundings, as erected in many London restaurants (The subject "Bacchus" is from a tile panel in course of erection at the "Fountain" Tavern, Camberwell Gate); their Venetian Glass Mosaic, a beautiful branch of mural art decoration, also their Ceramic Mosaics for pavements, the designs shown being suitable for halls, entrances, &c.

CHANNEL PIPES.

By BROAD & CO.

Pages 309 *to* 320

Messrs. BROAD & Co 's leading Sanitary specialities comprise their non-percolating drain pipes, their white enamelled Channel Pipes and Bends, their Channel Interceptor, their Excello Grease Traps, and other Traps, Gulleys, &c., &c.

SANITARY EARTHENWARE.

By T. W. TWYFORD.

Pages 343 *to* 350

Mr. TWYFORD again illustrates his well-known and excellent series of Closets, comprising the Unitas Combination the National Side Outlet, the Alliance Front Outlet, the Crown Closet, and the Deluge Wash down Closet. Also the Cardinal and Ideal Lavatory Basins.

FIBROUS PLASTER DECORATION.

By THE HITCHINS' FIREPROOF PLASTERING CO., LIMITED.

Facing Page 486.

This plate represents Fibrous Plaster Decoration executed by the HITCHINS' FIREPROOF PLASTERING COMPANY Fibrous Plaster is being largely used for the best description of plasterers' work, from the readiness with which it can be fixed, and the consequent saving of time in the completion and drying of buildings. The specimens shown on our plate are of excellent designs, representing ornamental ceiling panels, cove, and cornices. The cornices consist of wood pulp, for which the Company have the sole agency.

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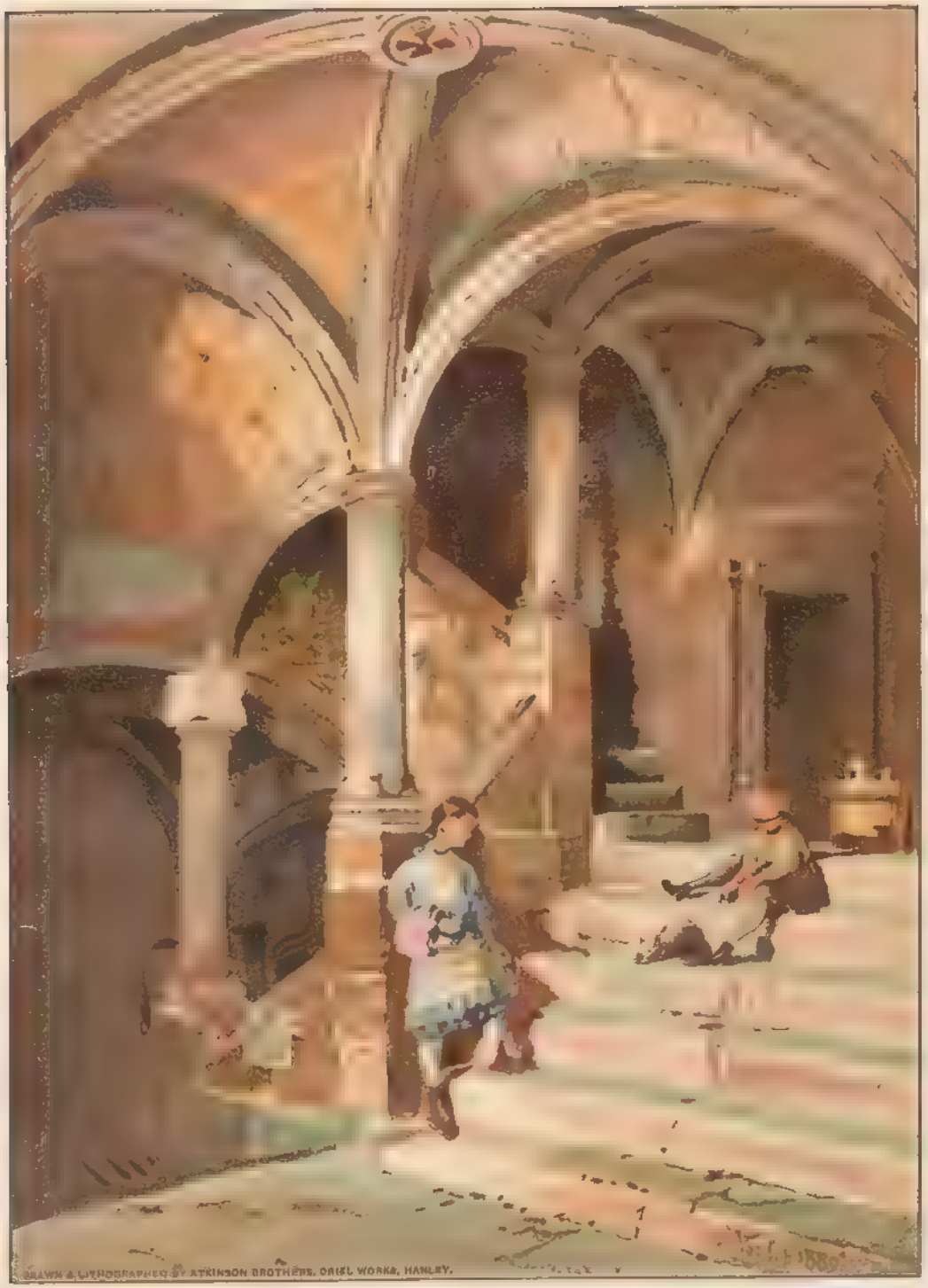

STAIRCASE, HOTEL DE VILLE, AIX LES BAINS.

REPRODUCTION OF WATER COLOUR DRAWING BY ALFRED WATERHOUSE, R.A.

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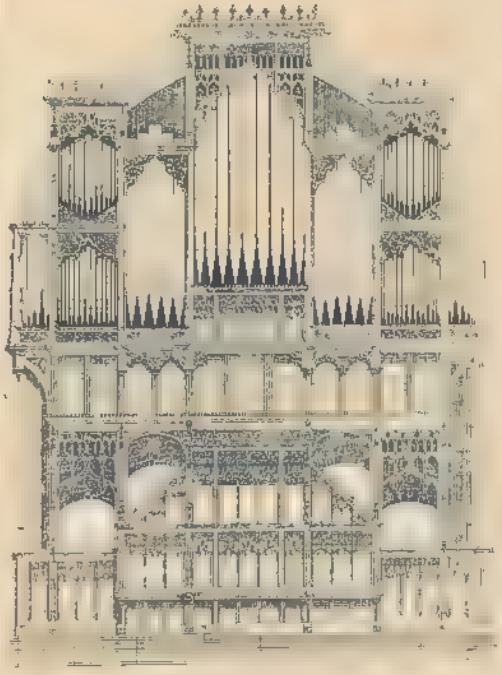

CHURCH OF ST MARY PORTSEA SIR A. W. BLOMFIELD, A.R.A.
DESIGN FOR ORGANCASE

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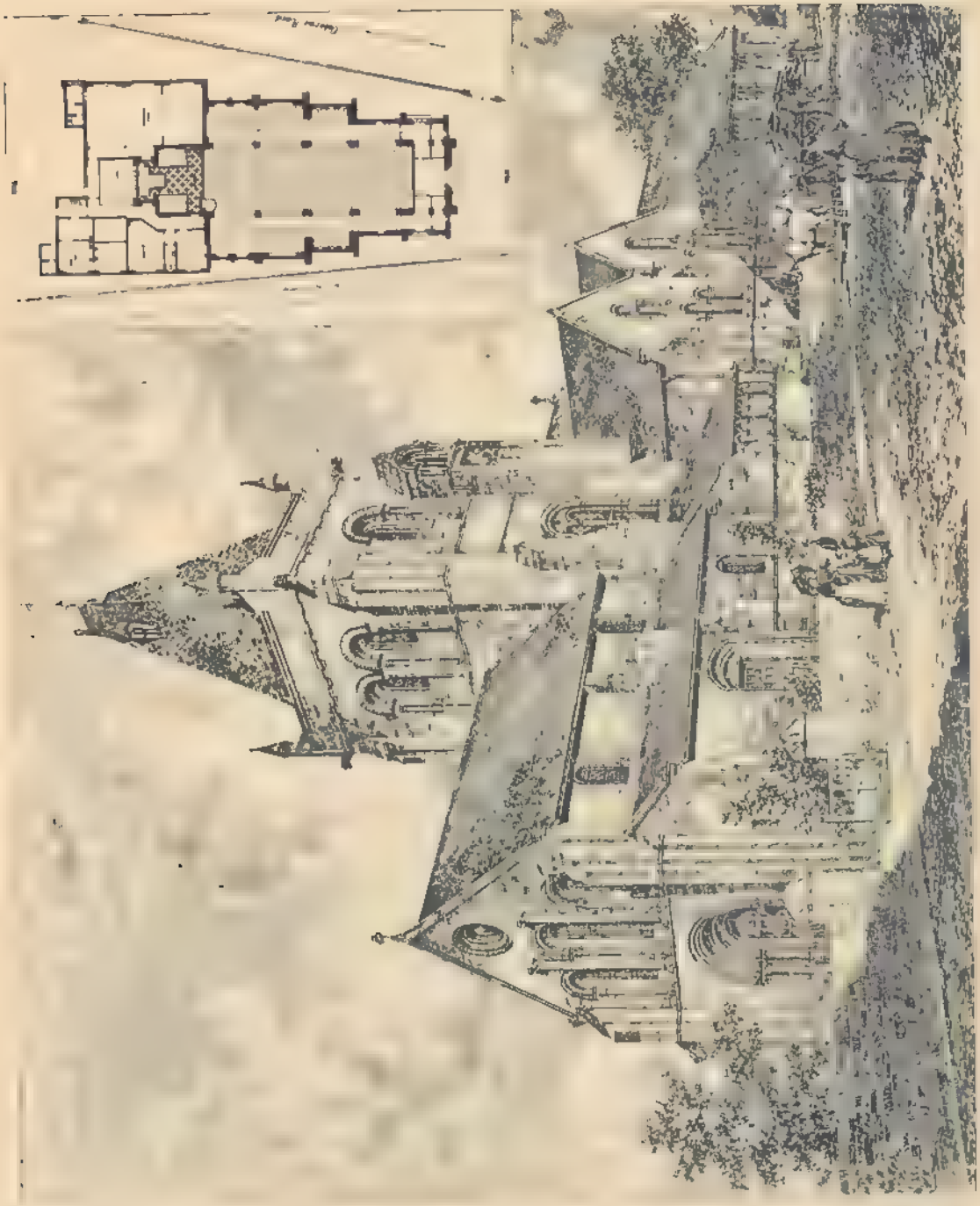

CHAPEL AT DESMOND NEWCASTLE-ON TYNE

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CENTRAL DOME, PARIS EXHIBITION.

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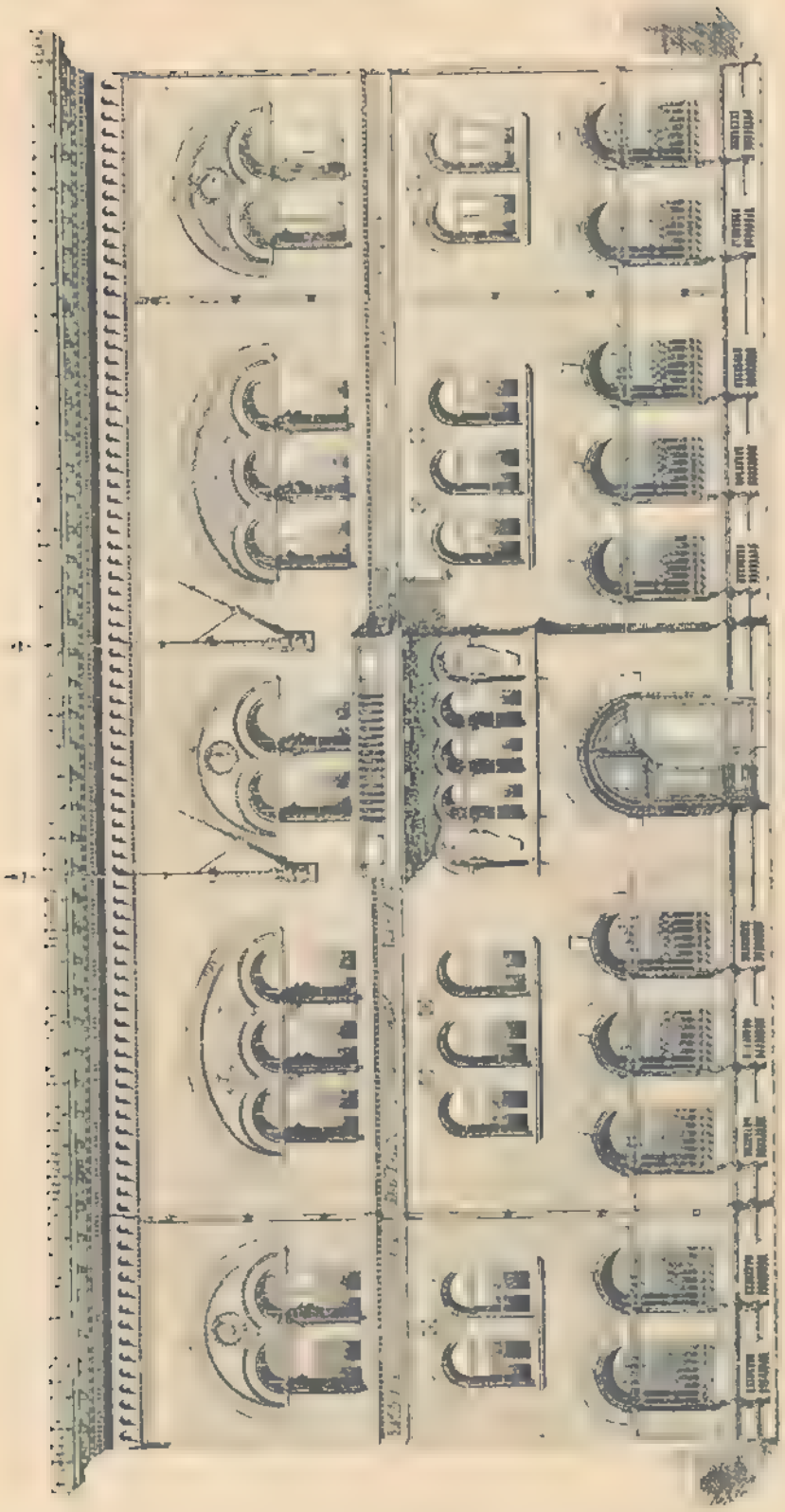

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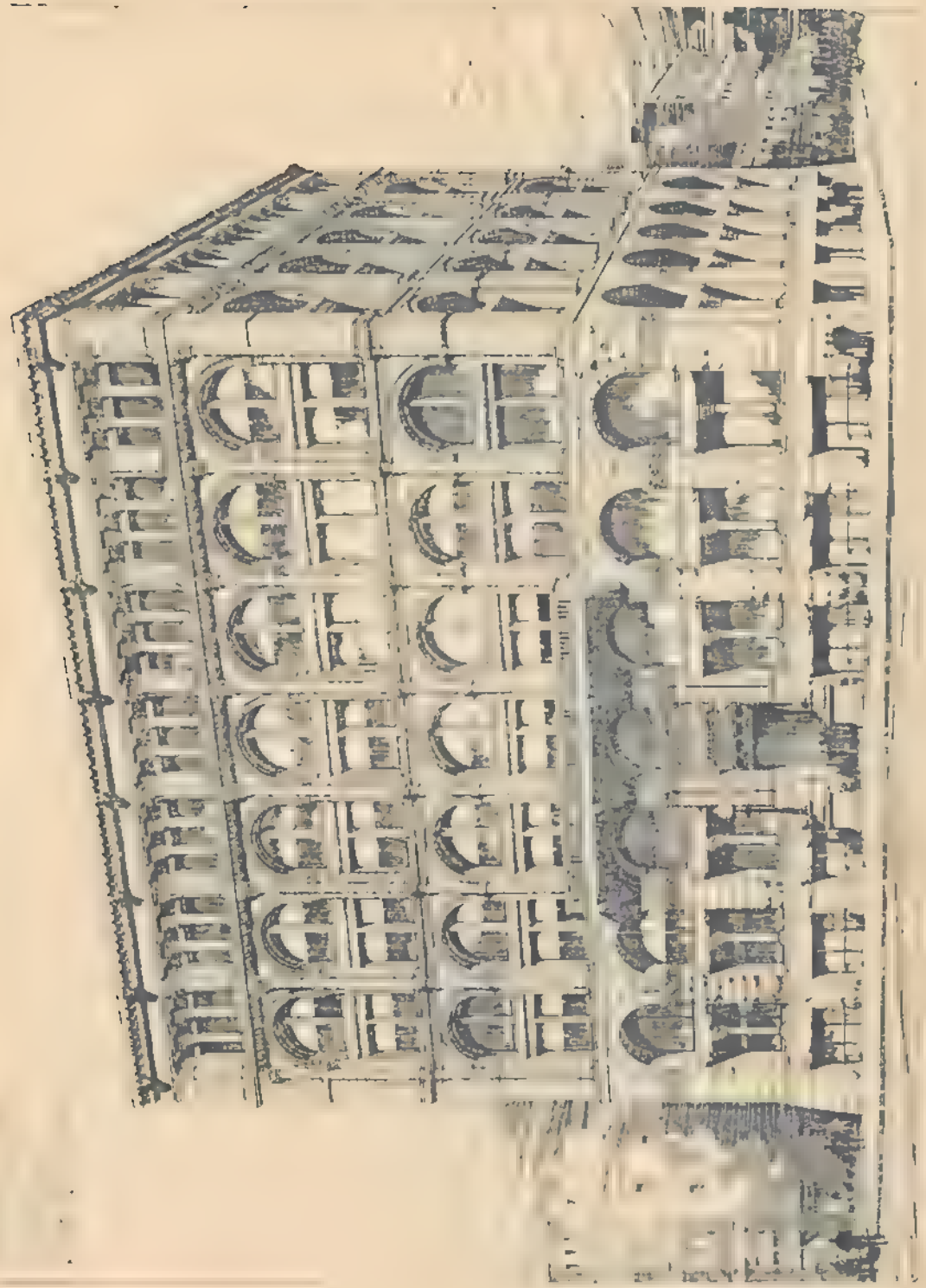

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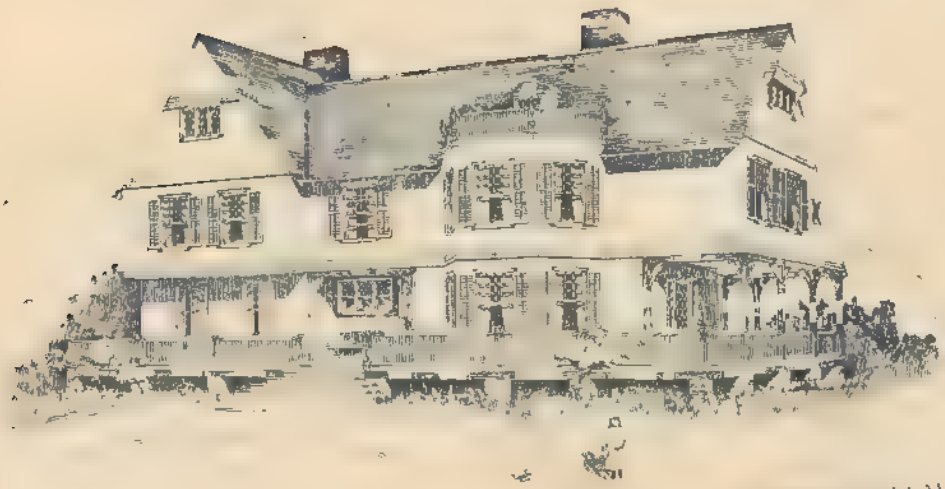

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SELIG, LONDON	Selig, Sonnenthal & Co
SEVERNDALE, LONDON ..	Coalbrookdale Co., Limited
SHARPE, SWADLINCOTE ..	Sharpe Bros. & Co
SILENS, BRADFORD	Leggott, W & R
STEAMPORT, LONDON	Hindley, E S.
STIFF, LONDON	Stiff, J , & Sons
STONECLEVE, PORTLAND ..	Pearce, J
SQUADRON, LONDON	Rottmann, Strome & Co
SYPHON STOVES, LONDON ..	Clark, S., & Co
SZERELMEY, LONDON	Szerelmey, N. C , & Co.
TALYSARN	Pen-yr-Orsedd Slate Quarry Co., Limited
TANGYES, BIRMINGHAM ..	Tangyes, Limited
THEREFORE, LONDON	Jacobs, E., & Co
TIBBINGTON, TIPTON	Tibbington Collieries & Brickworks, Limited
TONNERRE, LONDON	Anderson, R , & Co.
TUBES, LONDON	Spencer, J.
TWYFORD, HANLEY	Twyford, T. W.
TYLOR SONS, LONDON ..	Tylor, J., & Sons
TYNECASTLE, EDINBURGH ..	Scott Morton, W.
VENTILATION, LIVERPOOL ..	Gibbs, J , & Son
WALKER, WEST HARTLEPOOL	The Wood Block Flooring Co
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WEYMAN, GUILDFORD ..	Weyman & Co., Limited
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WISHAW, BIRMINGHAM ..	Shaw W , & Co
WOOLLAMS, LONDON	Woollams, W , & Co
WOOLLISCROFT HANLEY	Woolliscroft G & Son
WYNDHAM, RUABON	Wyndham, H.
YEMART, LONDON	Young & Marten

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THE

COMPLETE CATALOGUE.

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BRICKS, TILES & TERRA COTTA.

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A—BRICKS, TILES, AND TERRA COTTA.

E. P. BASTIN,

ROWLANDS CASTLE

DARK RED AND RICH RED

FACING AND MOULDED BRICKS

AS SELECTED BY

ALFRED WATERHOUSE, Esq., R.A., for facing the NEW HOTEL METROPOLE, at Brighton, now being erected.

Works ROWLANDS CASTLE, HANTS. London Office—49, FINSBURY PAVEMENT, E.C.

THE Rowlands Castle Bricks are manufactured from a very fine bed of red Terra-Cotta clay, which is admitted to be equal, if not superior, to any found in England. This clay is plastic, readily worked, and burns a rich red colour without the admixture of any colouring matter, having the requisite proportion of oxide of iron naturally incorporated with it. The bricks do not deteriorate by exposure to the weather; on the contrary, their red colour is made clearly to stand out. Great care is taken in the preparation of the clay, which, by means of improved machinery, is thoroughly ground and mixed before being made into bricks or other goods.

After being moulded and then carefully dried, either in the open air or in sheds heated by artificial means, the bricks are burnt at a high temperature in specially constructed kilns.

✻ RICH ✻ RED ✻ COLOUR. ✻

By this means I am able to produce a high-class facing brick of a dark or rich red colour, possessing exceptional non absorbent and weather-resisting properties, the surface having a soft velvety appearance which is pleasing to the eye and does not reflect the glare of the sun.

It is generally acknowledged that the comparatively small additional cost incurred by the use of a really good facing brick is amply repaid by the greatly improved appearance of the building compared with work faced with inferior bricks, which usually require a colour wash to make them at all presentable, and which has to be repeated from time to time.

The Rowlands Castle Bricks, being made from a *strong Terra-Cotta clay*, and not from mild loamy material, possess great strength and hardness, and are therefore specially suited for heavy work and high buildings. Messrs. David Kirkaldy & Son have tested a number of Rowlands Castle Bricks, and it will be seen from the accompanying report that they stood the heavy pressure of over 300 tons per square foot before crushing.

✻ RUBBING ✻ BRICKS. ✻

The Rowlands Castle Rubbing Bricks, for gauged work and for carving and cutting, are of very superior quality and colour. They are made from carefully washed earth, and will be found to work readily.

✻ MOULDED ✻ AND ✻ ORNAMENTAL ✻ BRICKS. ✻

In the following pages a selection of patterns of moulded and ornamental bricks, strings, panels, &c. are shown—other designs can be promptly produced from Architects' own drawings.

Having erected additional Drying Sheds for the manufacture of moulded and ornamental bricks, I can execute orders at very short notice either in summer or winter. This clay is specially suited for the manufacture of these goods, a great variety of which have been made by me some of large size and intricate design.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

✻ TILES, ✻ RIDGES, ✻ AND ✻ FINIALS. ✻

From the peculiarly dense and impervious nature of the Rowlands Castle Terra-Cotta clay, it is well adapted for the manufacture of Roofing Tiles, Ridge Tiles, and Finials. A great variety of these are made, of which a few patterns of those generally kept in stock are given; any other designs can be promptly made to drawing or model.

✻ TERRA-COTTA. ✻

Having extensive beds of fine Terra-Cotta clay, I am able to supply Terra Cotta of high quality and good colour. This clay will stand great heat, and, when burnt, has a very close texture and metallic ring.

The Works are about five minutes' walk from Rowlands Castle Station on the London & South Western, and three miles from Havant, where the London, Brighton & South Coast Railway joins the London & South Western, and from which place the two companies run over the same lines to Southsea and Portsmouth, about seven miles distant.

Architects are invited to visit the Works, where they can satisfy themselves as to the superior quality of the clay as well as inspect the manufactured goods.

E. P. BASTIN.

49, Finsbury Pavement, E.C.

Among the various Mansions and important Buildings where Rowlands Castle Facing and Moulded Bricks have been used are the following—

Building	Architect	Builder
Doulton & Co., Albert Embankment London ..		
Hackney College, Finchley Road, London ..	M. P. Manning, Esq., F.I.B.A. ..	Messrs J Simpson & Son.
Palace Court, Bayswater, London	Messrs W Harvey & Bernard Smith	Mr. A Bush.
Ditcham House, near Petersfield..	A W Blomfield, Esq, M A., F I.B.A.	Messrs J. Simpson & Son
Lythe Hill House, Hazlemere	G. Aitchison, Esq, A R A.	Messrs Hayward Bros., Limited
Assembly Rooms, Bognor..	Arthur Smith, Esq.	G. Newman & Co., Limited
Watergate House, near Chichester	A. Waterhouse, Esq., R.A.	Messrs. Foster & Dixie, Rugby
Penhale Road Board Schools, Portsmouth ..	A. H. Ford, Esq..	Messrs W. R & C. Light.
Conservative Club, Portsmouth	Alfred H. Bone, Esq.	Mr. H. Jones.
Portsea Island Co-operative Stores	C. W Houghton, Esq	Mr W D Lewis
"Hawkshill," near Leatherhead	Messrs Whitfield & Thomas	Mr. J. Botterill.
Young Men's Christian Association, Plymouth..	H. J. Snell, Esq	Mr. John Read
Redhill House, Havant	C. W. Bevis, Esq.	Messrs Spriggins Bros.
Beach Mansions, Southsea	J. H Ball, Esq	Mr. H Lawrence.
"Rowlands," Lingfield, Sussex	J. Colson, Esq	Mr. P Peters

Also on other Buildings at Guildford Godalming, Eastbourne, Brighton, Hastings, Bournemouth, Wimbledon, Surbiton, Woking, &c., &c

COPY OF REPORT.

DESCRIPTION.	Stress in Lbs. Cracked slightly.	Cracked generally.	Crushed and Steelyard Dropt.
6. Red Brick, band-made, recessed one side, R C. on all in recess.			
Mean Pressure	76,867	140,617	164,253
Lbs. per Square Inch	2,206	4,035	4,713
Tons per Square Foot	141·9	259·5	303·1

Bedded between pieces of pine three-eighths inch thick.

(Signed) DAVID KIRKALDY & SON, 99, Southwark Street, London

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

ROWLANDS CASTLE BRICK AND TILE WORKS.

ABRIDGED PRICE LIST.

Best Dark Red Facings, hand-made.
" Rich " "
" Medium " "

Good Red Facings
Hard Red Paving Bricks, 2 in
Red Rich Rubbers, 9½ inch. and 10½ inch

Prices of the above on application.

RED MOULDED BRICKS.

PLATE I. -3 INCH MOULDED BRICKS AS HEADERS AND STRETCHERS.

Returns *3d each*

Patterns Nos. 1, 2, & 3 per 100	7/6	Moulded Strings, Nos. 25 to 31 per 100	10/6
" 4 to 22 "	9/6	" " 32 to 40 "	11/6
23 & 24 "	10/6		

PLATE II.—MOULDED CILLS, JAMBS, PLINTHS AND COPINGS.

Patterns, Nos. 101, 102, and 103	per 100 10/6	Patterns, Nos. 125, 126 and 127	per 100, 10/6
" 104, 105, 106, 107, and 108	" 7/6	Plinths, " 128, 130, 131 and 132	each 4d.
" 109 and 110	" 11/6	Copings, " 129, 133, 134 and 135	per 100, 7/6
" 111	" 25/	" " 136	each 3d.
112 to 123	" 9/6	" " 137 and 138	" 4d.
" 124	each 3d		

PLATE III.—SQUARES, DIAPERS, PATERÆ, AND PANELS

6 in. Diaper and Pateræ, Nos. 76 to 99	each 3d	12 in. Pateræ, Nos. 110 and 112	each 2/
9 in. Pateræ, Nos. 100 to 109	" 10d.	Swag, No. 111 (24 in. × 12 in.)	" 7/

PLATE VIII 6 IN. AND 9 IN SQUARES

6 in. Squares, Nos. 201 to 212	each 4½d.	9 in. Squares, Nos. 213 to 220	each 1/-

PLATE IX STRING COURSES.

6 in. Strings, Nos. 221 to 226	each 4d.	3 in. Strings, Nos. 227 to 233	" 1½d.

External Angles, each 40/8.

PLATE X STRING COURSES AND DIAPERS

Nos. 234 to 237 Prices on application.		6 in. Diapers, Nos. 238 and 239	each 4d

PLATE XI. PANELS *Prices on Application*

PLATE IV PANELS AND KEY BRICKS

Panels, Nos 1 2 and 3	each 6	Key Bricks, No. 7, 3/-, No. 8	each 5/-
No. 4 18 each, No 5	35/-	" Nos. 10 and 11	6/
No 6 18 each No. 9	20	" " No. 14	" 10/-

Complete Swag, No. 13, 40/-.

PLATE V RIDGES AND ROOFING TILES

Ridges Nos. 2, 3, and 4	2½d. each	Roofing Tiles, plain, hand made, per 1,000	33/-
" " 1	4d. each	" " wide tiles for gables, No. 20	per 100, 8/-
" " 5	6d. each	Angles, Hip and Valley Tiles, Nos. 17, 18, and 19	per 100, 25/-
" " 6 to 16	7d. each	Ornamental Tiles, Nos. 21, 22, and 23	per 1,000, 36/

Dun colours, 1/- per dozen extra. *Dun colour, 5/- per 1,000 extra*

PLATE VI.—FINIALS

Pattern, No. 1	3/6 each	Pattern, No. 5	4/6 each	Pattern, No. 9	11/- each	Pattern, No. 13	7/9 each
2	3/6 each	" 6	4/9 each	" 10	6/6 each	" 14	7 each
3	3/6 each	" 7	6/6 each	" 11	7/6 each	" 15	4 9 each
4	4/6 each	" 8	5/- each	" 12	5/9 each	" 16 and 17	8 6 each

If Dun colour 1/- each Finial extra.

PLATE XII.—RIDGES, CROSSES, AND FINIALS

Ridges, Nos. 24, 25, 29, and 33	per foot run 1 1	Crosses, No. 20, 70/- No 21 90/- No 22, 70/- each	
" 26, 27, 30, 31, and 34	" 1/6	Finial No. 18, 7/- No 19, 10 6 each	
32 and 35	" 2/6	" No 23 1[illegible]/- No. 24, 28/- No 25, 12/6 No 26 12/6 ; No. 27, 25/- each.	
" 28 Prices on application.			

PLATE VII.—CHIMNEY POTS, CHIMNEY DIVISIONALS, &c.

Plain Chimney Pots, 9 in. high 9d., 12 in., 1-/; 24 in. 2/- each.		Ornamental Pots, 36 in. high	6/- and 8/- each
Ornamental Pots, 9 in high., 1/6; 18 in., 3/-, 24 in., 4/- each.		Chimney Divisionals, all 3 in. thick	3/- each

FLOWER VASES		GARDEN EDGING.	
12 in., 2/6, 9 in., 1/6; 6 in., 1/-	Saucers, 3d. each.	Per 100	7/6 and 10/6

Complete Illustrated Catalogue, with full size Sections and full Price List, forwarded on application.

TERMS. All prices include delivery into trucks at Rowlands Castle L. & S. W. Railway, the purchaser paying Railway carriage. Accounts are payable on the 10th of the Month following delivery, and are then subject to 2½ per cent. discount.

E. P. BASTIN.

TELEGRAPHIC ADDRESS -LONDON OFFICE: "BASTIN, LONDON" WORKS: "BASTIN, ROWLAND CASTLE"

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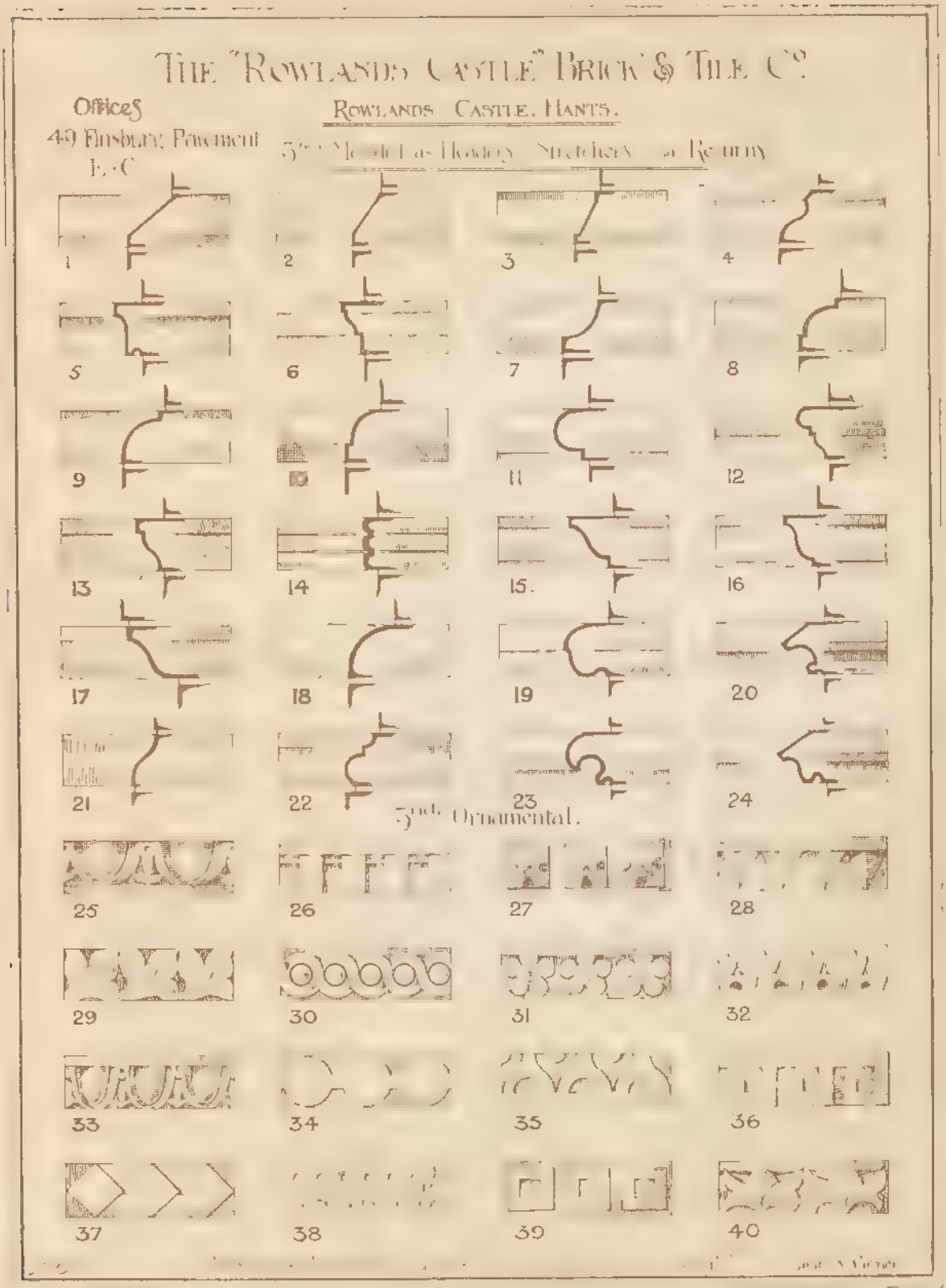

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A.—BRICKS, TILES AND TERRA-COTTA.

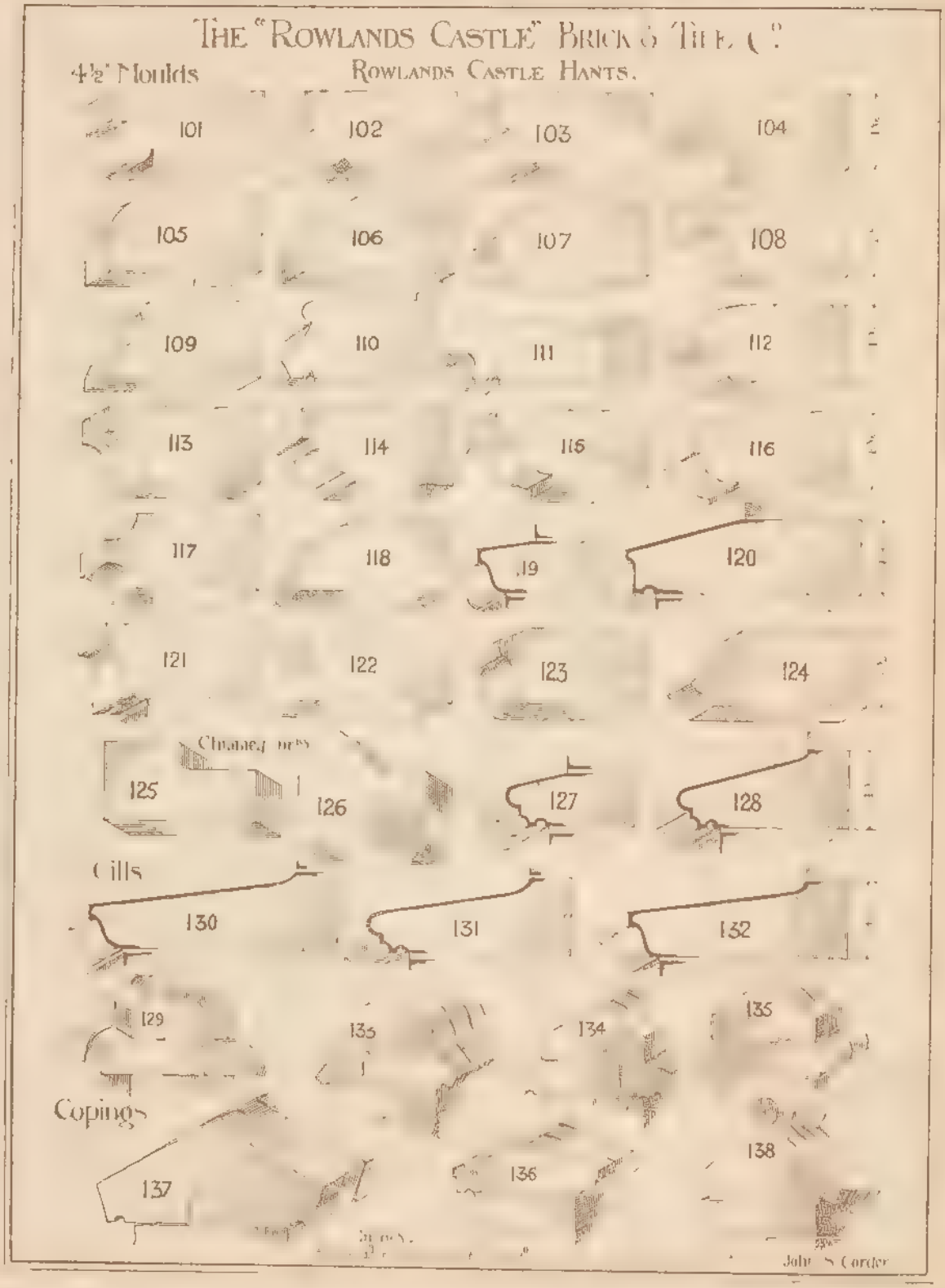

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Plate 3.

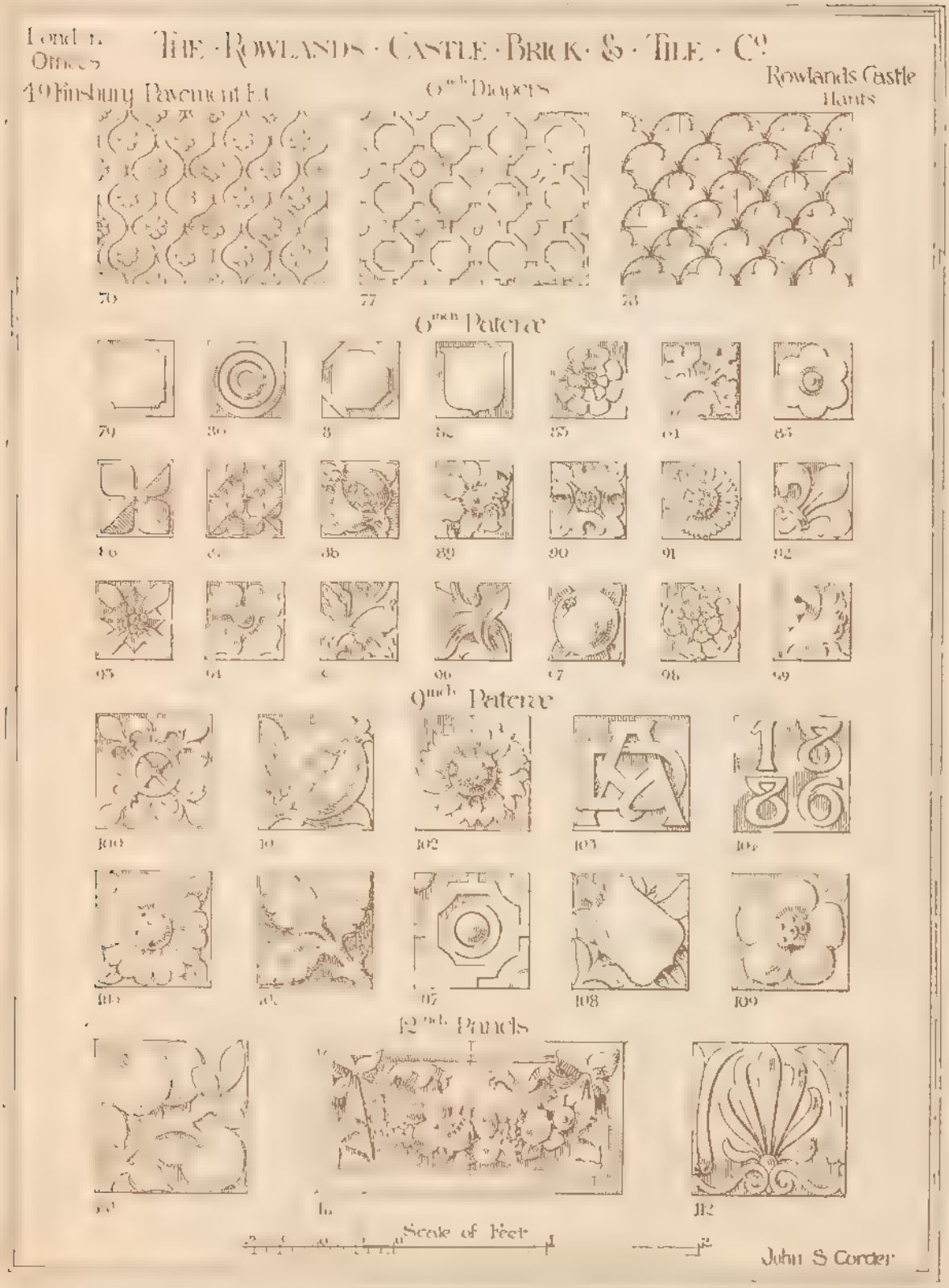

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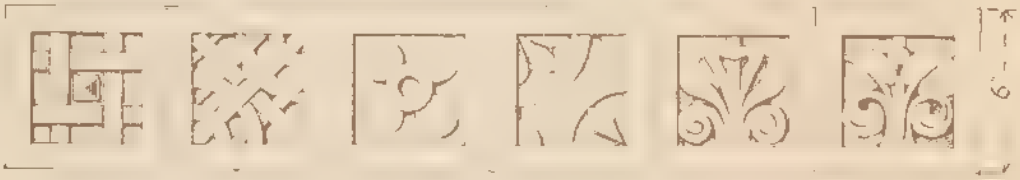
Plate 8.

E·P·BASTIN.

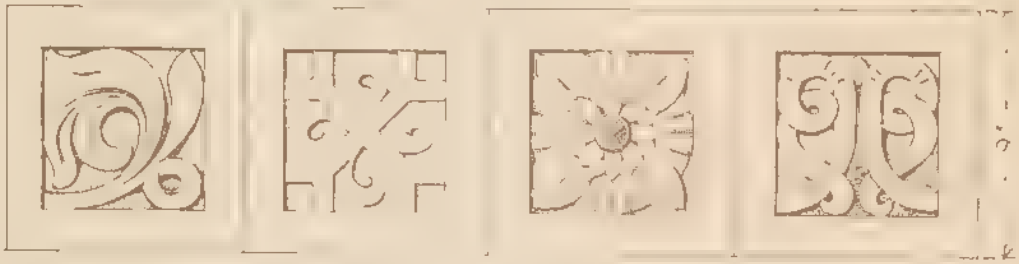
ROWLANDS CASTLE BRICK & TILE Co HANTS

No 201 202 203 204 205 206

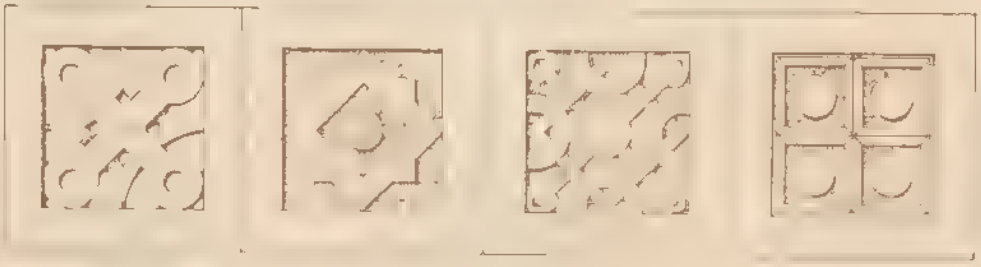


No 207 208 209 210 211 212

6" SQUARES.



No 213 214 215 216



No 217 218 219 220

9" SQUARES.

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E·P·BASTIN.

ROWLANDS CASTLE BRICK & TILE Co HANTS

No 221 -222-

No -223- -224-

No 225 · 6" STRINGS 226 -

HEADERS 227 228 -229 -

HEADERS 230 231 - COMBINATION OF PATTERNS 230 & 231

HEADERS 3" STRING 232 233 3" STRING STRETCHERS

SECTION THRU No 55

COMBINATION OF PATTERNS 232 & 233 TO FORM

3" STRINGS ALTERNATE HEADERS & STRETCHERS

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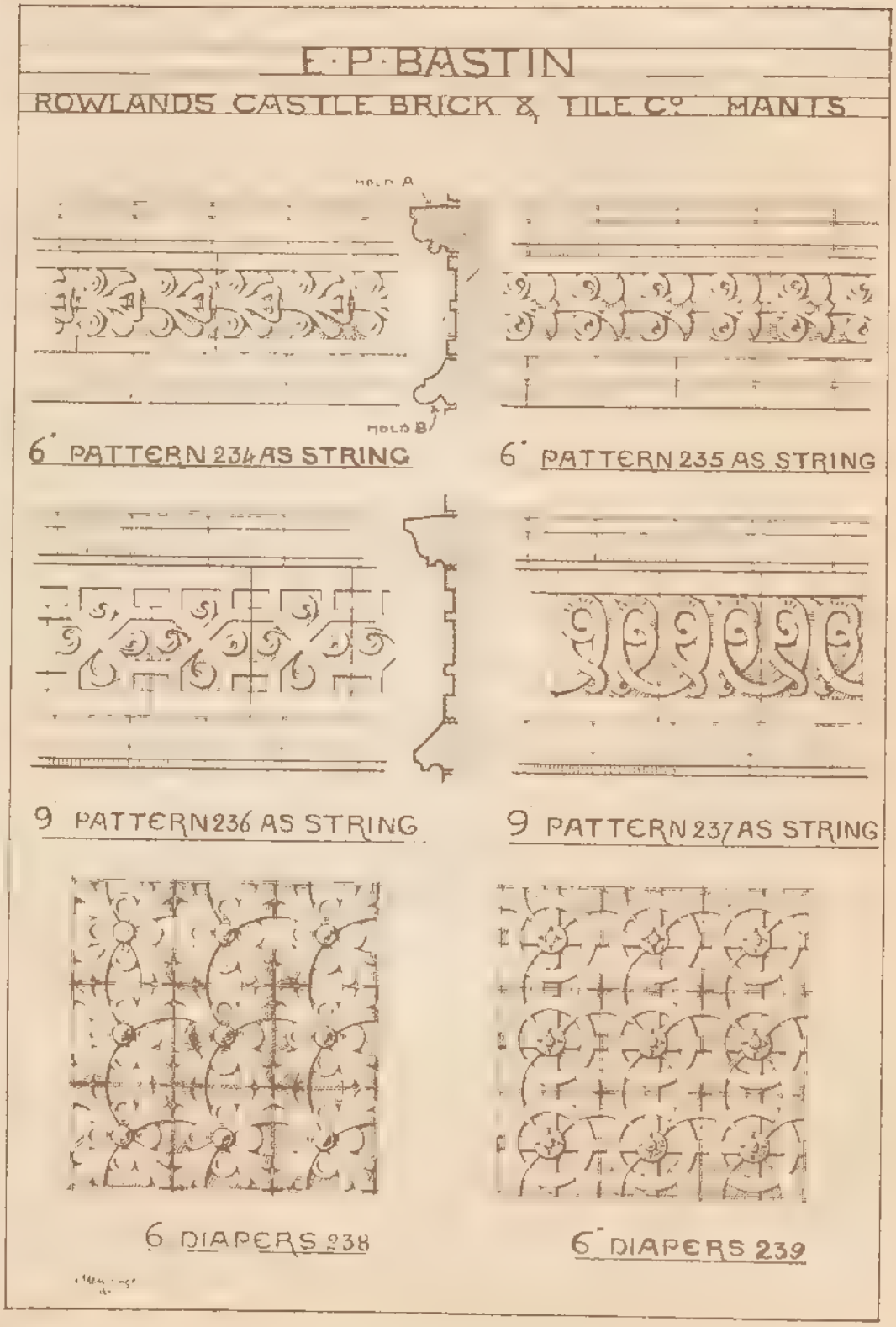

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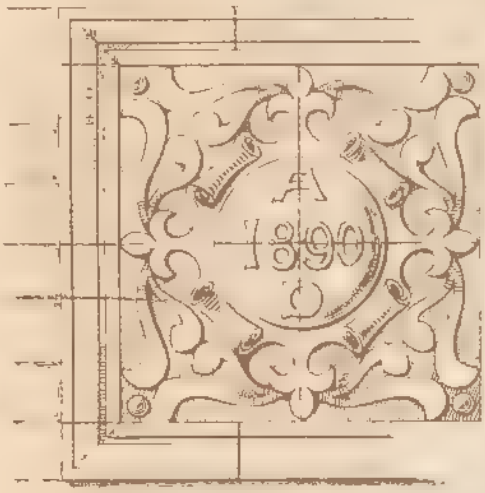
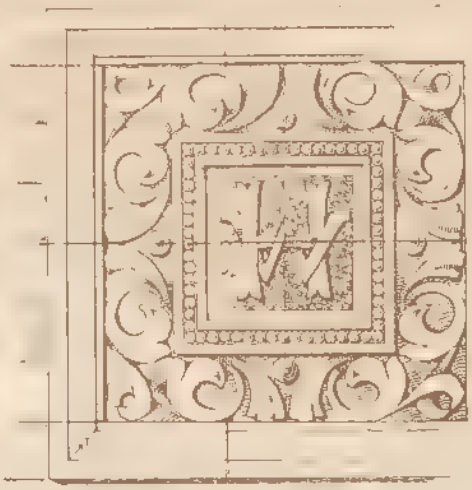
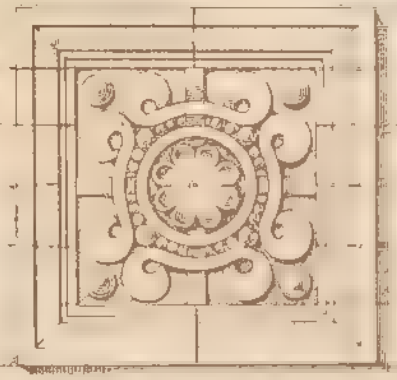
ROWLANDS CASTLE BRICK & TILE Co HANTS

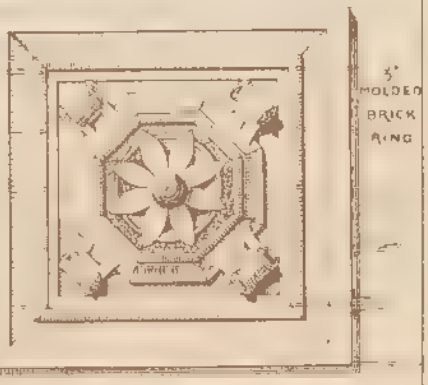




No -240- 18" PANELS OF 4 9" SQUARES -241-

PANEL OF 3 9" SQUARES 242-





243 - 12" SQUARES 244

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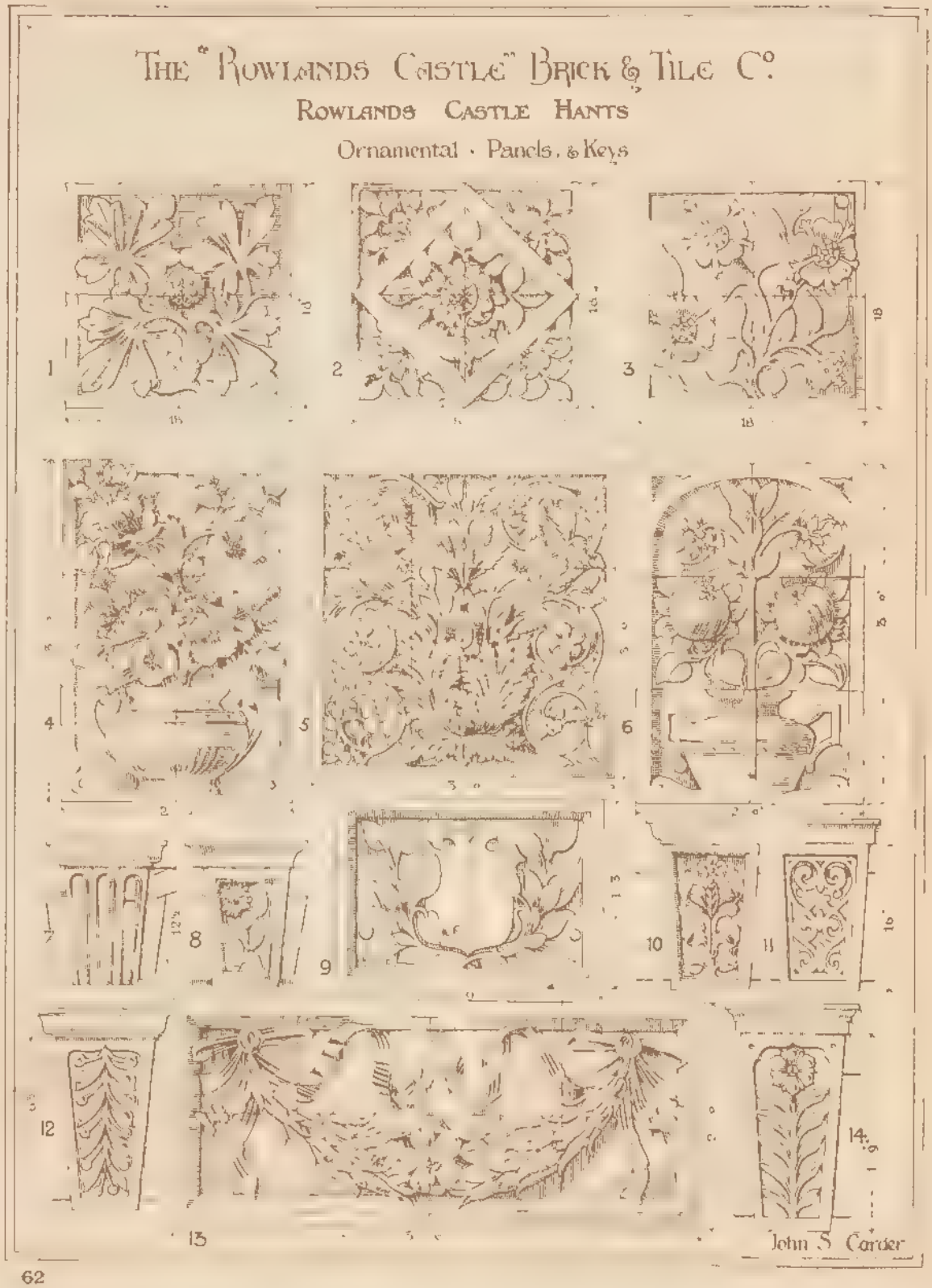
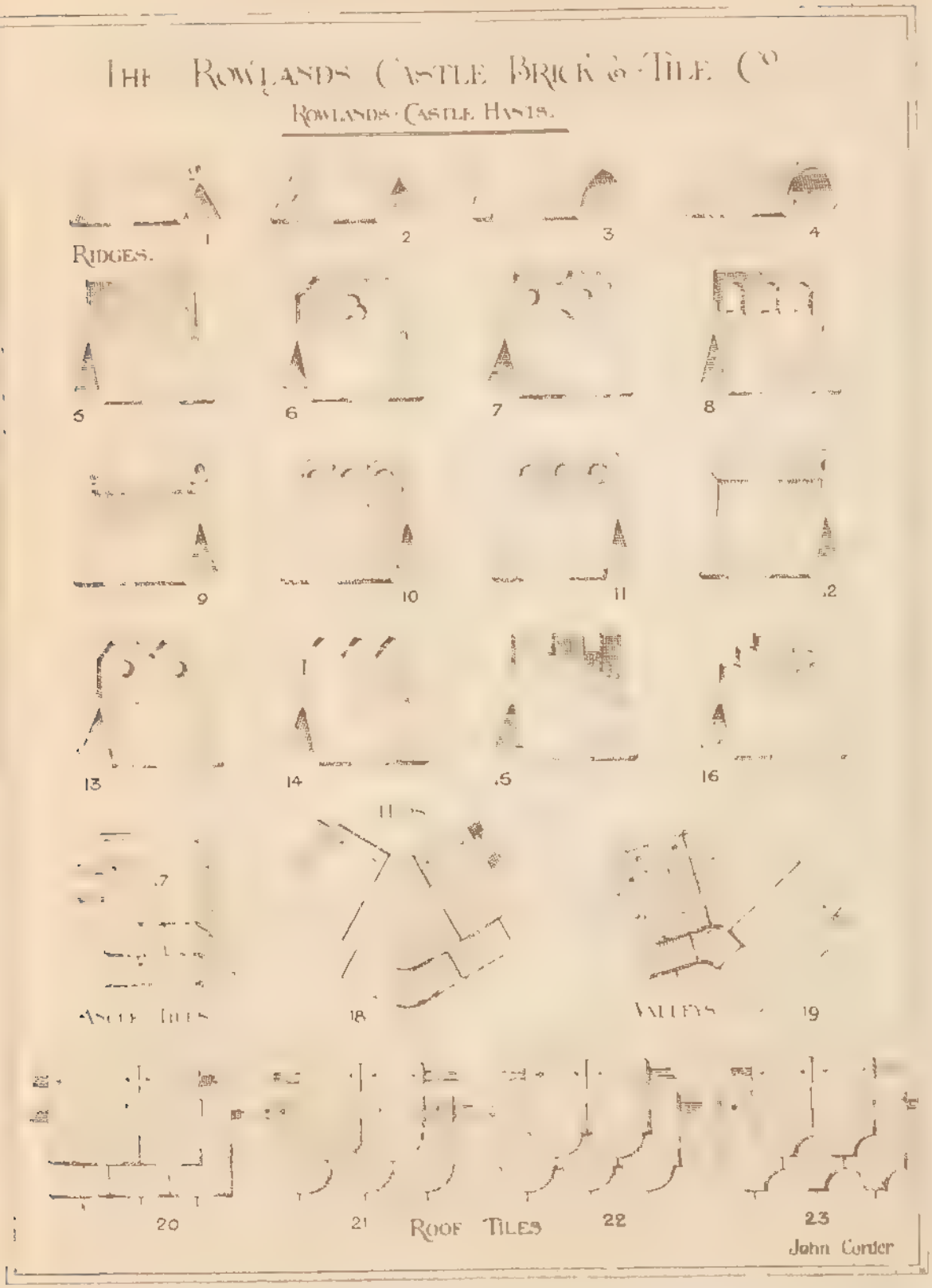


From the collections of Sydney Living Museums / Historic Houses Trust of NSW



From the collections of Sydney Living Museums / Historic Houses Trust of NSW

A.——BRICKS, TILES AND TERRA-COTTA.

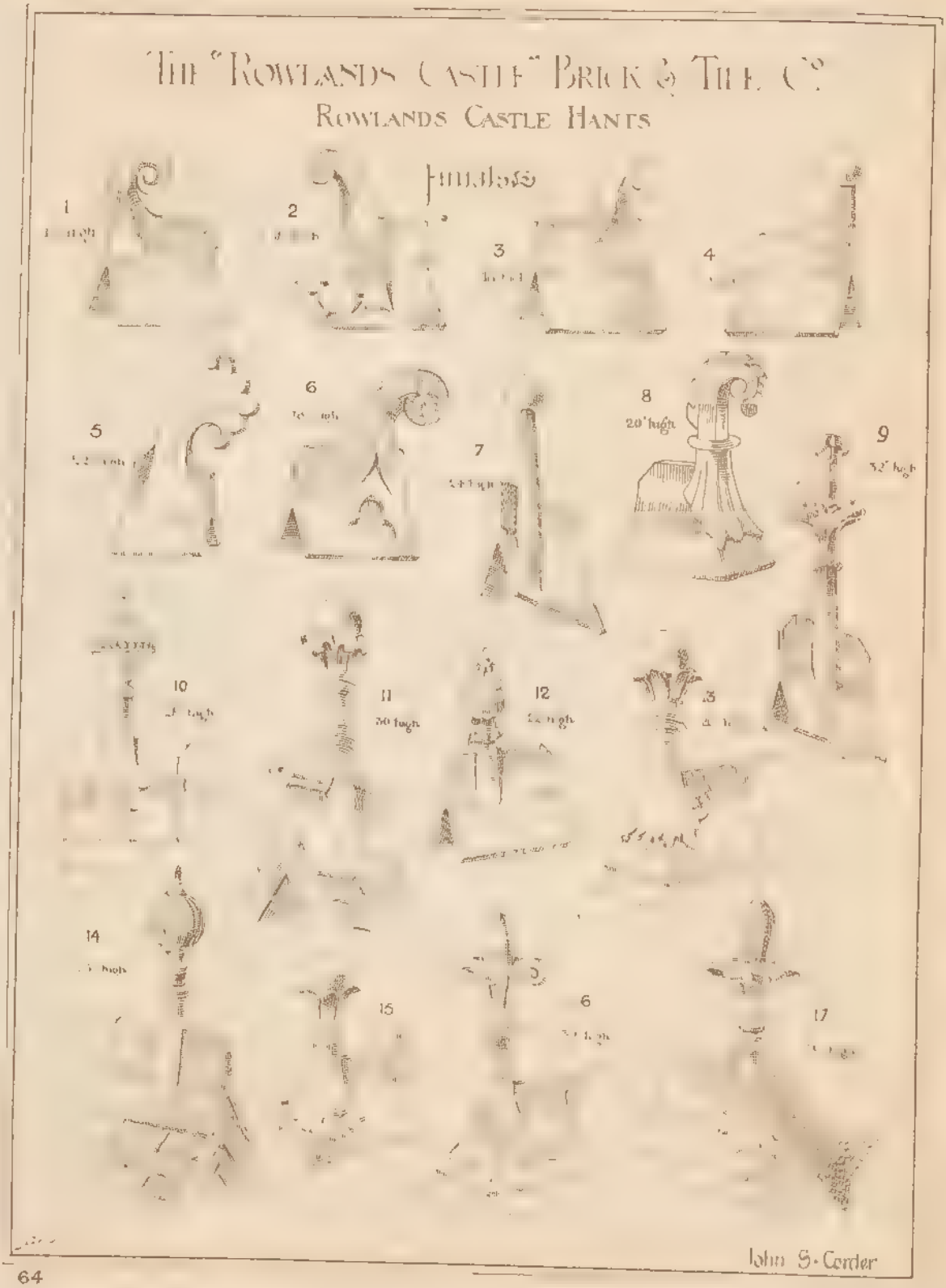


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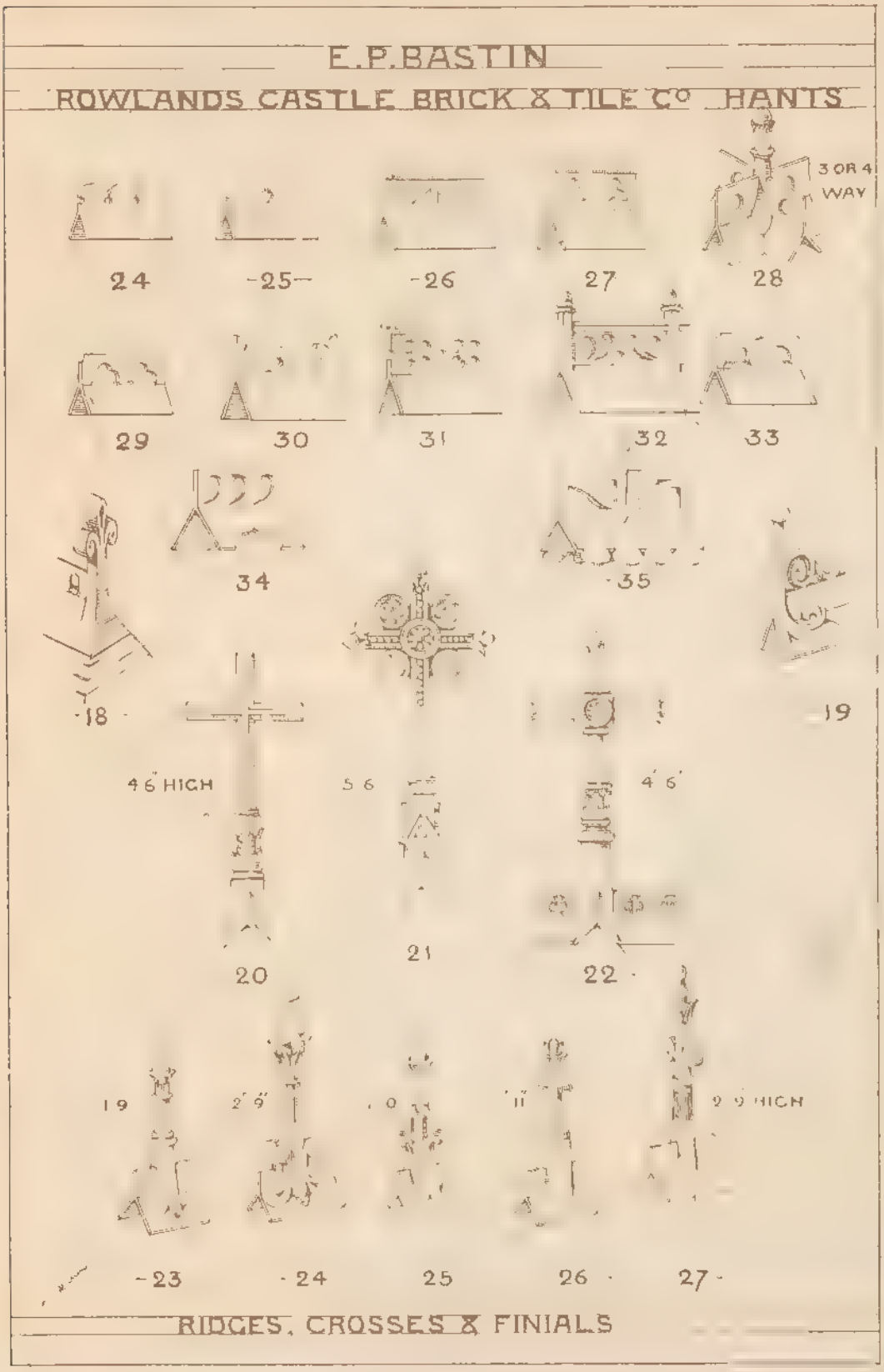
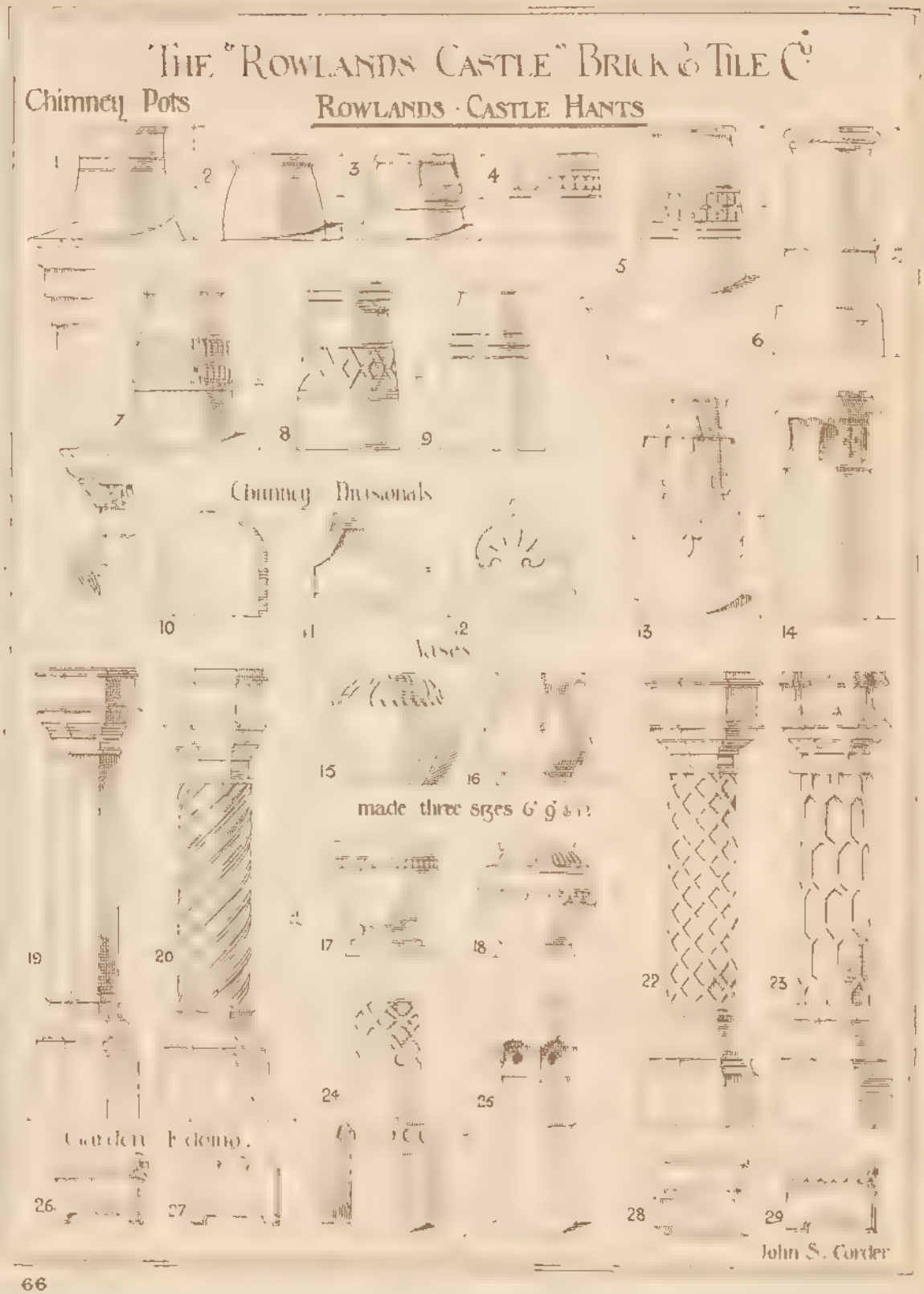
Plate 12.



From the collections of Sydney Living Museums / Historic Houses Trust of NSW



From the collections of Sydney Living Museums / Historic Houses Trust of NSW

JOHN CADDICK,

(Late WHEATLY & CO., and WHEATLY & CADDICK),

SPOUTFIELD TILERIES, STOKE-ON-TRENT, STAFFORDSHIRE.

Postal and Telegraphic Address—JOHN CADDICK, STOKE-ON-TRENT

Manufacturer of

SUPERIOR PRESSED ROOFING TILES

In Red, Blue, & Broseley Colours;

ALSO

RIDGE TILES & FINIALS IN A GREAT VARIETY OF DESIGNS.

Pressed Paving Tiles: Red, Blue, and Buff.

IN THREE QUALITIES, VIZ.:

ORDINARY.

Suitable for Cottage Work, where a good cheap Quarry is wanted

SINGLE CROWN.

A Superior Quality for better class work.

DOUBLE CROWN

A Superfine Quality of extra make and finish, for first-class work.

BUFF PAVING TILES.

These being hard fired, I can strongly recommend to wear well with the Red and Blue.

BRICKS, GARDEN BORDER TILES, &c., &c.

ROOFING TILES.

These are made from selected Marls very close in body and after being subjected to great pressure and hard firing, will absorb little or no moisture. In quality, colour, and finish, they equal any tiles produced.

I have supplied them for many large and important Buildings, and have always given perfect satisfaction.

PRICE LIST & DESIGN BOOK FREE ON APPLICATION.

I have adopted as my Registered Trade Mark a Horse Shoe, with which all my Goods are stamped.

REGISTERED TRADE MARK.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

ESTABLISHED 1795.

Joseph Cliff & Sons,

WORTLEY, LEEDS.

Telegraphic Addresses:
"CLIFFS LONDON"
"CLIFFS LEEDS"
"JOSCLIFFS LIVERPOOL"

(Incorporated in the Leeds Fire Clay Co., Ld.)

Telephone:
LONDON, No. 7,572.

MANUFACTURERS OF

Glazed & Enamelled Bricks & Tiles,

WHITE, COLOURED, SALT GLAZED, EMBOSSED, PRINTED, &c.

Cliff's Patent Bond for 4½ in., 6 in., 9 in. and 13½ in. Walls.

MAJOLICA MOULDED & PLAIN GLAZED BRICKS.

Architectural Terra-Cotta, buff, red and salt glazed.

Hall's Patent Hanging Tiles,

FOR FACING OLD AND NEW WALLS, AND FOR LINING WOOD PARTITIONS.

"IMPERIAL" PORCELAIN BATHS, SINKS, WASH-TUBS, MANGERS, CISTERNS, TROUGHS, FOOT BATHS, &c.

Wortley Faience, Decorative & Constructive,

Panels, Mouldings, Columns, Mantels, Fenders, &c., richly Glazed in many Artistic Colours

STONEWARE PIPES, CHANNELS, GULLEYS, SINKS, &c. & SANITARY EARTHENWARE, LAVATORIES, CLOSETS, &c.

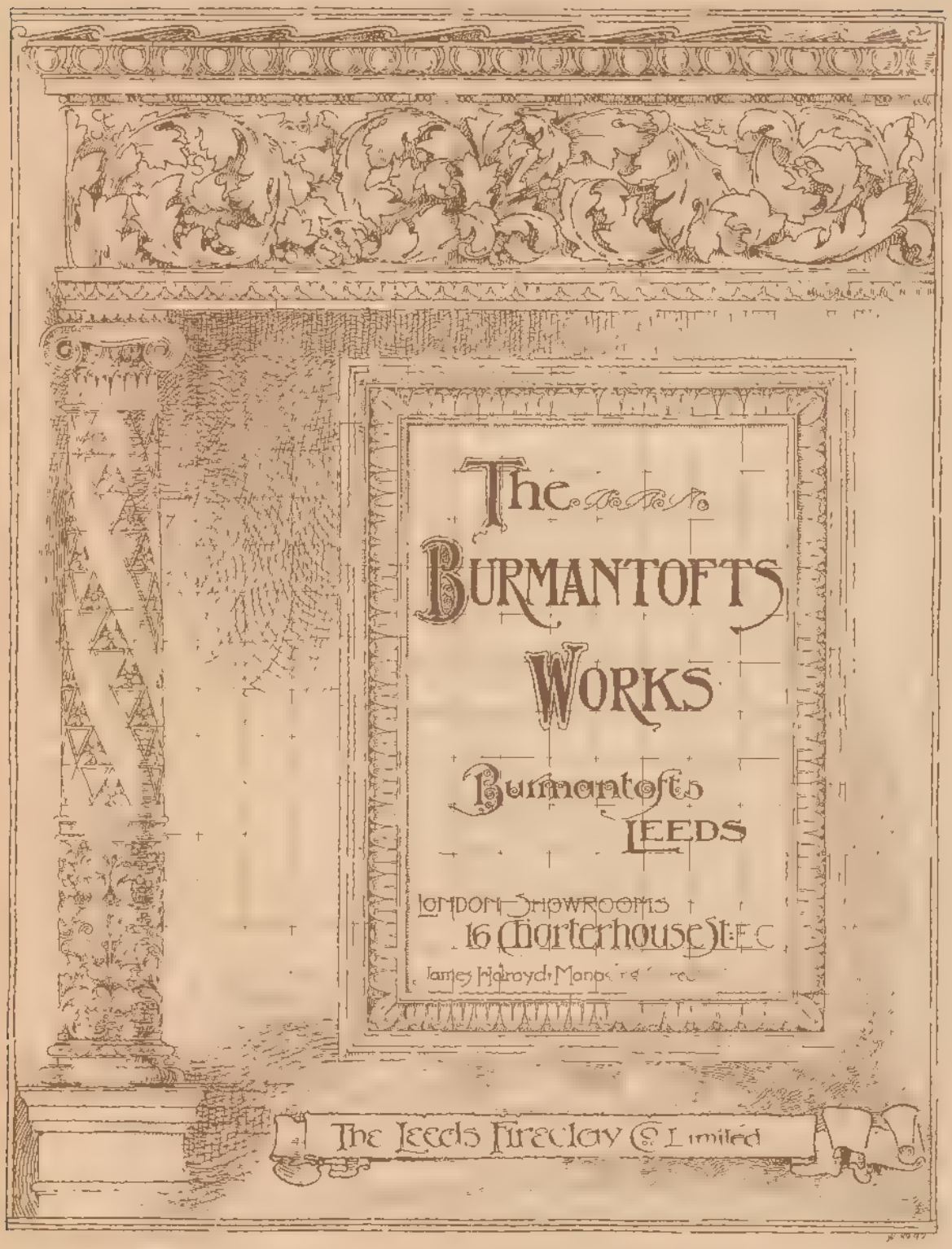
Sole Makers of Winser's Channel Bends and Traps, Potts', Ilcs', Hagens,' Dodds', Birds', "Simplex," "Cerus," "Cecil," "Newman," and other Patent Traps, Gulleys, &c.

LONDON: Baltic Wharf, Waterloo Bridge, S.E.; AND 2 & 4 Wharves, G. N. Goods Station, Kings Cross, N.

LIVERPOOL: Lightbody Street. *LEEDS: Queen Street.*

ILLUSTRATED PRICE LISTS AND SAMPLES ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW



From the collections of Sydney Living Museums / Historic Houses Trust of NSW

The following & many other works have been carried out recently including BANKS · BATHS ····· RESTAURANTS · BILLIARD ROOMS · SCHOOLS · CONSERVATORIES INFIRMARIES · DAIRIES ASYLUMS · HOSPITALS · LAVATORIES &c

Name of Works	Locality	Material	Architect
National Liberal Club	London	Faïence	A. Waterhouse RA
Technical Schools	Blackburn	Terracotta & Glazed Bricks	Smith FRIBA Woodhouse & Willoughby
Gran Deposito Distribuidor de Agua	Buenos Ayres	Faïence & Glazed Bricks	Bateman Parsons & Bateman
Hotel Metropole	Brighton	Terracotta	A Waterhouse RA
Commercial Bank of Scotland	Glasgow	Faïence	S. Mitchell & Wilson
National Provincial Bank	Manchester	Faïence & Glazed Bricks	A Waterhouse RA
Derwent Houses	London	Terracotta	John Dunn FRIBA
Prudential Offices	Birmingham	Faïence & Glazed Bricks	A. Waterhouse RA
New Premises Church St	Liverpool	Terra Cotta	City Surveyor
University College	Liverpool	Faïence & Glazed Bricks	A. Waterhouse RA
Corden Court Avery Hill	Eltham	Faïence & Glazed Bricks	Thos W Cutler FRIBA
London Lancashire Insurance	Liverpool	Faïence & Glazed Bricks	A Culshaw ARIBA
Free Library	Edinburgh	Faïence	C. Washington Browne
Loudoun House	London	Terra Cotta	John Dunn FRIBA
Museum of Science and Art	Dublin	Faïence	T N Deane & Son MRI Ireland
Lancashire & Yorkshire Bank	Manchester	Faïence & Glazed Bricks	C Heathcote FRIBA
Commercial Bank of Scotland	Lombard St London	Faïence	J McVicar Anderson FRIBA
Express Dairy	Hampstead	Faïence	Keith D Young FRIBA
Turkish Bath Avery Hill	Eltham	Faïence	Thos W Cutler FRIBA
Middlesex Hospital Mortuary	London	Terra Cotta	Keith D Young FRIBA
Hotel Metropole Turkish Bath	Brighton	Faïence	A Waterhouse RA
London & S W Bank	London	Faïence	Emerson FRIBA & Gabriel ARIBA

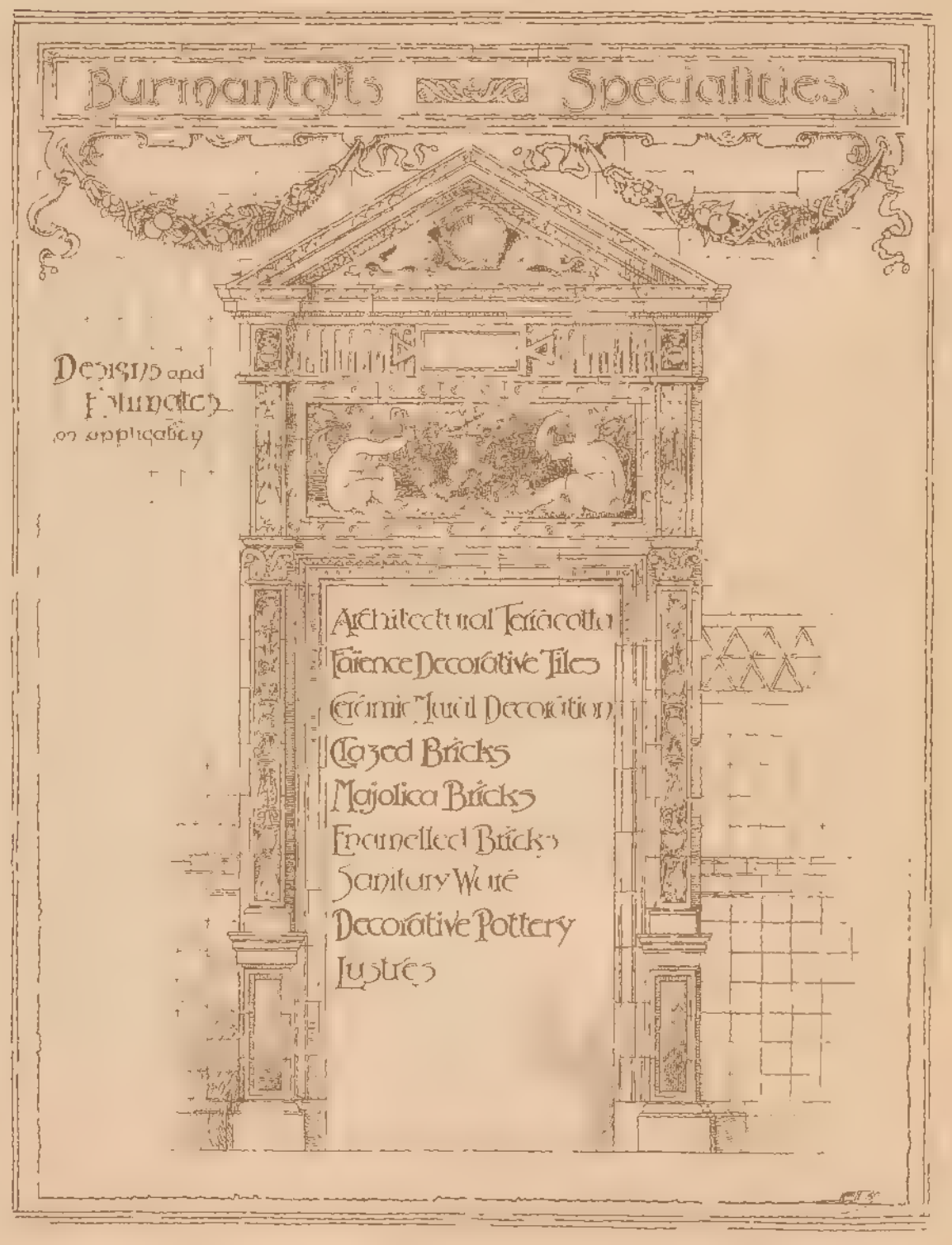
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

A - BRICKS, TILES, AND TERRA COTTA.

Royal Infirmary	Liverpool	Faience & Glazed Bricks	A Waterhouse R A
Weigh House Chapel	London	Terracotta & Faience	A·Waterhouse R A
Station Hotel	Newcastle o/t	Glazed Bricks & Faience	Wm Bell
Cafe Monico	London	Terracotta	Christopher & White
West Riding Asylum	Menstone	Faience & Glazed Bricks	J Vickers Edwards
Claybury Asylum	Woodford	Glazed Bricks	G T Hine FRIBA
Epidemic Hospital	Nottingham	Glazed Bricks	A·Brown MICE
Town Hall	Alloa	Faience	A Waterhouse RA
Fish Market	Liverpool	Glazed Bricks	City Surveyor
Midland Station Hotel	Bradford	Faience & Glazed Bricks	C Trubshaw F
Prudential Offices	Glasgow	Faience & Glazed Bricks	A Waterhouse RA
St. Johns Market	Liverpool	Glazed Bricks	City Surveyor
Stock Exchange	Edinburgh	Faience	J·McLachlan
Sussex Hotel	Southsea	Faience	A·H·Bone
Grand Hotel Restaurant	Hastings	Faience	H Ward ARIBA
Ferguslie Park	Paisley	Faience	H J Blanc & Gordon
Piccadilly House	London	Terracotta	Joseph & Smithem
Engine House Ferguslie Mills	Paisley	Faience	Morley & Woodhouse
Grand Cafe	Belfast	Faience	R Watt
Gas Offices	Belfast	Faience	R·Watt
Maltravers House	London	Terracotta	J. Dunn FRIBA
Sion College	London	Glazed Bricks	Sir A W Blomfield MA FRIBA FSA ARA
Gianella Cafe	London	Faience	B·Fletcher FRIBA FSI·
Branch Bank of England	London	Glazed Bricks	Sir A W Blomfield MA &c
Heaths Premises	London	Terracotta	Christopher & White
[illegible]	[illegible]	Glazed Bricks	[illegible]

Burmantofts Specialities

From the collections of Sydney Living Museums / Historic Houses Trust of NSW



From the collections of Sydney Living Museums / Historic Houses Trust of NSW

LEICESTERSHIRE

RED PRESSED FACINGS, HARD & WELL MADE. MOULDED BRICKS.

ELLIS, PARTRIDGE & Co., Manufacturers **RED** GREYFRIARS, LEICESTER. and Merchants.

RED SAND STOCK FACINGS { *Specially adapted for* **SUBURBAN, COUNTRY HOUSE, & CHURCH WORK.**

All kinds of BUILDERS' MATERIALS. **BRICKS.** *SLATING & TILING CONTRACTORS.*

Telegrams: "ELCHO, LEICESTER." MENTION THIS ADVERTISEMENT WHEN WRITING.

HALL & BOARDMAN,

Telegraphic Cipher Address "HALL, SWADLINCOTE"

LIMITED.

MANUFACTURERS OF

SEWERAGE PIPES,

FIRE BRICKS,

CHIMNEY TOPS, &c.

Swadlincote & Gadley Hill Collieries, near Burton-on-Trent.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

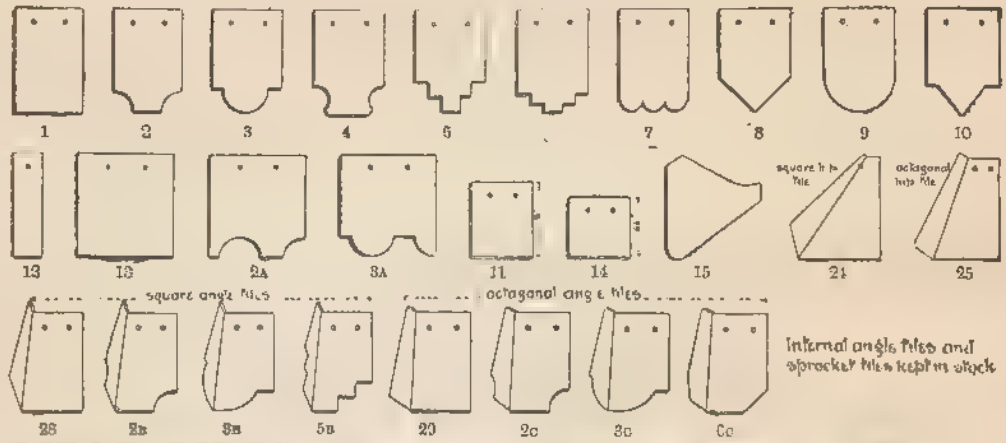
Telegraphic Address
"COLLIER, READING."

S. & E. COLLIER,

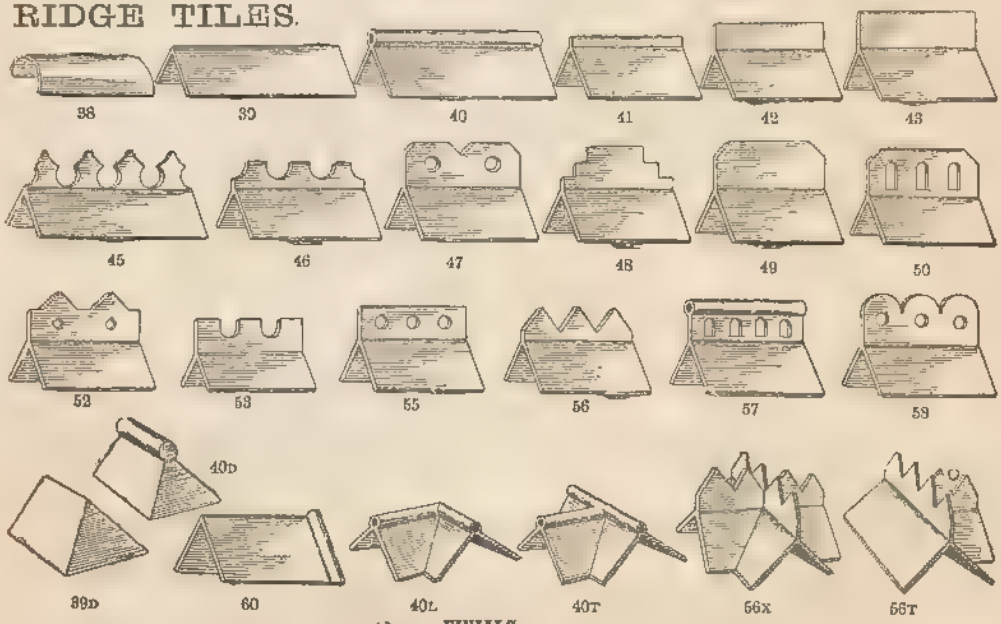
Manufacturers of the CELEBRATED READING RED TILES,

GROVELANDS POTTERIES, READING.

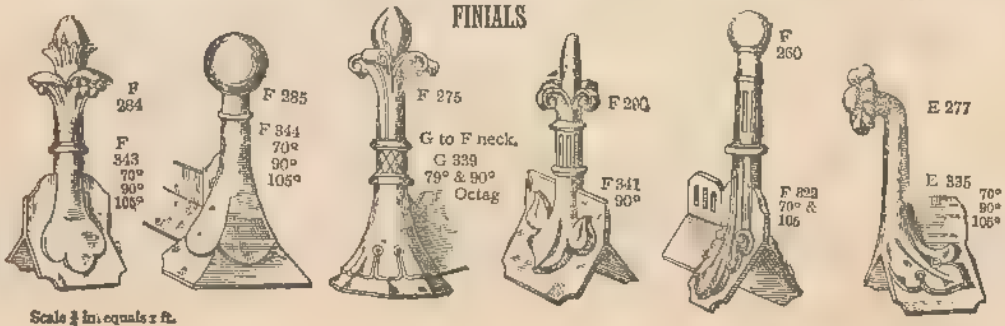
ROOFING TILES.



RIDGE TILES.



FINIALS



Scale ¾ in. equals 1 ft.

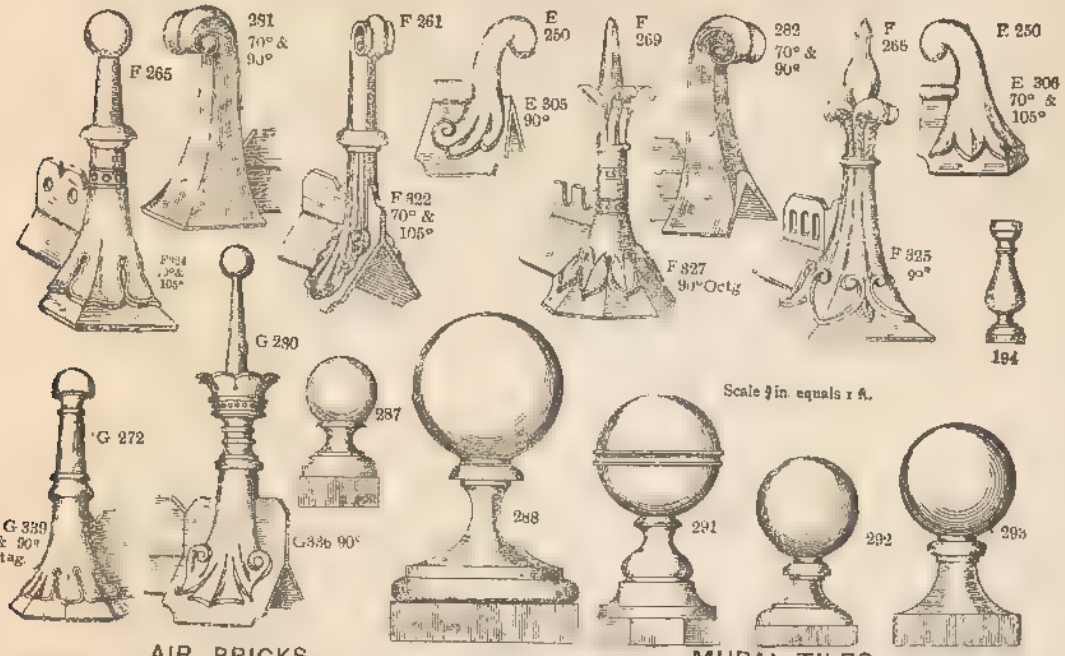
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address: "COLLIER, READING."

S. & E. COLLIER,

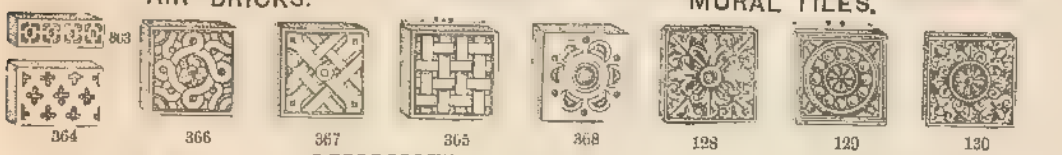
Manufacturers of the CELEBRATED READING RED TILES,

GROVELANDS POTTERIES, READING.



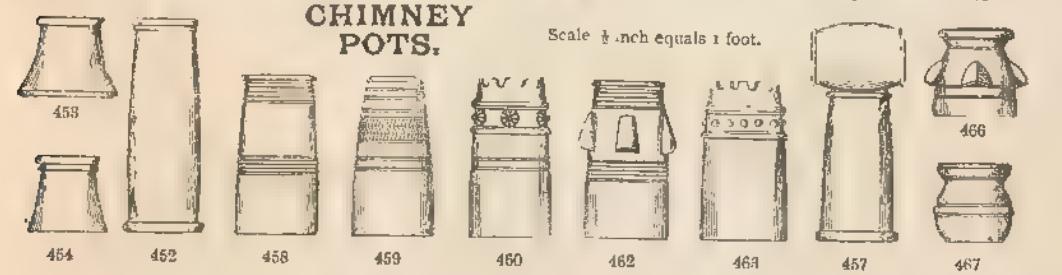
AIR BRICKS.

MURAL TILES.



CHIMNEY POTS.

Scale ½ inch equals 1 foot.



PRICES.

FREE ON TRUCKS AT READING STATION.
ALL BREAKAGES AT THE RISK OF THE PURCHASER.

No.	Smooth or Sand Faced.	Dun-Coloured.	Per.	No.	Length.	Price	Per	No.	Each	No.	Each	No.	Each	No	Size.	Doz.	No.	Size.	Each.
1	32/-	34/6	1,000	38	12"	16/-	100	39L	1/8	G272	3/-	E305	2	363	9" × 3"	3/-	452	60"	5/-
9—10	34/6	37/-	"	39	18"	4/6	Doz.	40 to 43L	2/	F275	5/-	E306	2	364	9" × 6"	6/-	"	72"	6 6
11, 12 & 14	32/-	34/6	"	39	12"	3/2	"	45 to 59L	2/3	E277	3/-	F322	5/-	365 to 368	9" × 9"	15/-	457	30"	3/-
13	56/-	60/6	"	40	18"	6/-	"	39T	1/8	G280	6/6	F324	5/	128 to 130	9" × 9"	12/-	"	36"	4/6
2A to 10A	60/6	65/-	"	40	12"	4/6	"	40 to 43T	2/-	281	6/-	F325	5/		6" × 6"	4		42"	5/3
15	16/8	18/-	100	41 to 43	12"	4/6	"	45 to 59T	2/3	282	6/-	F327	5/-	453	12"	1 each		48"	6/
24	16/8	18/-	"	45	18"	9/-	"	39X	2/6	F284	7/6	F335	4 4	454	12"	1 each	458	24"	3/-
25	18/-	19/6	"	46	14"	6/8	"	40 to 43X	3/-	F285	3/-	G336	6/3	452	11"	11	459	24"	3
28	16/-	18/-	"	47 to 56	12"	6/8	"	45 to 59X	3/4	287	5/-	G339	6/3	"	24"	1/2	460	24"	3/6
2B to 10B	18/-	19/6	"	57	12"	8/4	"	E250	1/-	288	15/-	F341	5/-		27"	1/6	462	24"	3 6
29	18/-	19/6	"	58	12"	6/8	"	F260	2/6	F290	5/-	F343	4/-	"	30"	2/	463	24"	3/-
2C to 10C	19/6	22/-	"	60	12"	6/8	"	F261	3/-	291	8/-	F344	4/-	"	33"	2/6	466	12"	2 3
				39D		1/2	Each.	F265	2/6	292	6/6	G to F Neck	2/-	"	36"	3/	467	12"	2 3
				40D to 43D		1/4	"	F266	5/-	293	7/-				42"	3/6			
				45D to 58D		1/8	"	F269	4/3	294	1/9				48"	4/-			
															54"	4/6			

NOTE. In ordering Finials, please give the Number of both Ornament and Base. Ornaments will fit any Base of the same letter. The cost is ascertained by adding the price of the Ornament to that of the Base required. Complete Lists on application.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

J. K. COOPER & SONS,

Brick, Tile & Terra Cotta Works: PINKNEY'S GREEN, MAIDENHEAD. Offices: CASTLE HILL, MAIDENHEAD.

Manufacturers of every kind of Plain Molded and Ornamental Red Bricks, Plain and Ornamental Roofing Tiles; Ridges; Finials; Crosses, Chimney Pots; Copings; Paving Bricks and Tiles, etc.; Also of Terra Cotta Goods of every description in Red or Buff.

THESE Goods have long been noted for their high-class quality, rich colour, good design and finish, and exceptionally weather-resisting qualities, and are extensively used by leading Architects in all parts of the Kingdom.

The greatest care is taken in the selection, washing, and mixing of the Clays; and in the thorough burning of the Goods.

Ridges and Finials have always been, and are now, our Specialty, but a **thoroughly good hand-made pressed facing brick** is now being made from a new bed of exceptionally fine Clay—a brick capable of sustaining great weight, non-absorbent, with sharp arrises, good shape and colour.

To meet the keen competition in this as in all other Manufactures, we have modified our prices wherever we have found it possible to do so, without in any way detracting from the quality or finish of the Goods.

All Bricks and Roofing Tiles are finished with a sanded surface, unless ordered otherwise.

PRICE LIST OF GOODS ILLUSTRATED.

ALL PRICES QUOTED INCLUDE PACKING INTO TRUCKS AT COOKHAM STATION. ALL BREAKAGES AT THE RISK OF THE PURCHASER.

TERMINALS.

	Each.		Each		Each.
No. 1	27/6	No. 10	47/6	No. 19	22/6
" 2	20/	" 11	50/	" 20	17/6
" 3	47/6	" 12	75/	" 21	10/
" 4	15/	" 13	50/	" 22	10/
" 5	47/6	" 14	37/6	" 23	12/6
" 6	27/6	" 15	15/	" 24	10/
" 7	16/	" 16	15/	" 25	5/
" 8	12/6	" 17	47/6	" 26	12/6
" 9	27/6	" 18	12/6		

CROSSES.

	Each.		Each		Each
No. 1	85/	No. 10	40/ & 70/	No. 19	57/6
" 2	15/	" 11	90/	" 20	57/6
" 3	20/	" 12	105/	" 21	30/
" 4	70/	" 13	95/	" 22	45/
" 5	65/	" 14	55/ & 75/	" 23	35/
" 6	22/6	" 15	37/6	" 24	30/
" 7	20/	" 16	52/6	" 25	27/6
" 8	45/6	" 17	105/	" 26	17/6
" 9	90/	" 18	47/6	" 27	47/6

TERMINALS.

	Each.		Each.		Each.
No. 27	10/	No. 37	12/6	No. 47	20/
" 28	6/6	" 38	10/	" 48	65/
" 29	6/6	" 39	7/6	" 49	47/6
" 30	10/	" 40	60/	" 50	52/6
" 31	15/	" 41	6/	" 51	110/
" 32	12/6	" 42	70/	" 52	10/
" 33	15/	" 43	70/	" 53	12/6
" 34	15/	" 44	4/	" 54	52/6
" 35	60/	" 45	60/	" 55	15/
" 36	20/	" 46	60/	" 56	4/

ROOFING TILES AND VENTILATORS.

Nos 1 to 21, *Prices on application.*		No 28	5/
" 22	3/	" 29	42/6
" 23	10/	" 30	8/6
" 24	10/	" 31	12/6
" 25	5/	" 32	17/6
" 26	27/6	" 33 to 41, *Prices on application*	
27	8/6		

RIDGE TILES.

	Per lineal foot.		*Per lineal foot.*		*Per lineal foot.*		*Per lineal foot*
No 1	/4	No. 22	1/	No. 43	2/6	No. 64	1/
" 2	/6	" 23	1/2	" 44	1/2	" 65	1/1
" 3	/6	" 24	2/	" 45	1/2	" 66	3/3
" 4	/8	" 25	/11	" 46	1/2	" 67	1/3
" 5	/8	" 26	1/	" 47	1/2	" 68	1/2
" 6	/10	" 27	1/	" 48	2/6	" 69	2/6
" 7	/10	" 28	/11	" 49	1/	" 70	1/1
" 8	1/2	" 29	1/1	" 50	1/3	" 71	1/2
" 9	/10	" 30	1/	" 51	1/1	" 72	2/6
" 10	1/	" 31	1/	" 52	2/	" 73	/10
" 11	1/	" 32	1/1	" 53	1/	" 74	2/6
" 12	1/	" 33	1/	" 54	1/6	" 75	1/1
" 13	/11	" 34	1/2	" 55	/10	" 76	/10
" 14	/11	" 35	1/1	" 56	/10	" 77	/10
" 15	1/	" 36	1/1	" 57	1/3	" 78	1/
" 16	1/	" 37	1	" 58	1/2	" 79	/11
" 17	/10	" 38	/10	" 59	1/3	" 80	1/2
" 18	/11	" 39	/10	" 60	/8	" 81	1/2
" 19	/11	" 40	/10	" 61	/8	" 82	1/3
" 20	1/	" 41	/10	" 62	1/	" 83	1/1
" 21	1/	" 42	/11	" 63	/8	" 84	/10

CHIMNEY POTS.

No. 1	3/6	No. 15	4/6	No. 28	7/6
" 2	3/6	" 16	4/6	" 29 *with Cone*	4/
" 3	3/6	" 17	4/6	" " *without Cone*	3/
" 4	3/6	" 18	4/6	" 30 *with Cone*	3/
" 5	3/6	" 19	5/	" " *without Cone*	2/
" 6	3/6	" 20	4/6	" 31	1/6
" 7	3/6	" 21	10/6	" 32	8/6
" 8	5/	" 22	10/6	" 33	7/6
" 9	3/6	" 23	7/6	" 34	7/6
" 10	12/6	" 24	14/	" 35	13/6
" 11	3/6	" [illegible]	7/6	" 36	17/6
" 12	3/6	" 26	7/6	" 37	7/6
" 13	3/	" 27	7/6	" 38	5/
" 14	4/6				

COPINGS AND MOLDED BRICKS

No 1	15/ *per* 100.	No. 22	10/ *per* 100.	No. 43	15/ *per* 100
" 2	16	" 23	8/	" 44	4 *per foot*
" 3	8/ "	" 24	8	" 45	4
" 4	7/ "	" 25	10/6	" 46	6 *each*
" 5	15/ "	" 26	10/6	" 47	10/ *per* 100.
" 6	7/ "	" 27	15/	" 48	15 "
" 7	7/ "	" 28	15/	" 49	10/6 "
" 8	/3 *per foot.*	" 29	10/6	" 50	8/ "
" 9	/3 "	" 30	10/6	" 51	8/ "
" 10	9 "	" 31	10/6	" 52	7 "
" 11	20/ *per* 100.	" 32	10/6	" 53	7 "
" 12	20/ "	" 33	10/6	" 54	10/ "
" 13	8/ "	" 34	10/6	" 55	7/ "
" 14	8/ "	" 35	8	" 56	1/ *per foot.*
" 15	8 "	" 36	10/6	" 57	7 *per* 100.
" 16	8 "	" 37	10/6	" 58	7/ "
" 17	8/ "	" 38	7/	" 59	12/6 "
" 18	8 "	" 39	7/	" 60	7 "
" 19	10 "	" 40	/3 *per foot*	" 61	7 "
" 20	10 "	" 41	3 *each.*	" 62	7 "
" 21	10	" 42	6 "	" 63	8 "

VASES, PANEL BRICKS, &c.

No. 1	2/6 *each*	No. 30	2/ *ft. run* seatings 4/ *pr.*
" 2	25	" 31	4/3 *per ft run* capping & necking mitres included.
" 3	15/ "	" 32	6/6 *per foot run.*
" 4 14in. pier	5/ *each.*	" 33	3/ *each.*
" 18in. "	7/6 "	" 34	3/ *per ft. run* mitres 3/6
" 5 "	22/6 *each.*	" 35	1/6 *each*
" 6	3/6 "	" 36	2/ "
" 7	4/6 "	" 37	4/ "
" 8	6/6 "	" 38	1/6 *ft. run* returns 2/ *ea.*
" 9 "	8/6 "	" 39	1/6 " " " 2/ *ea.*
" 10 "	20/ "	" 40	2/6 *each.*
" 11 "	17/6 "	" 41	15/ *per* 100.
" 12 "	25/ "	" 42	15/ "
" 13 "	27/6 "	" 43	15/ "
" 14 "	50/ " *with molding.*	" 44	15/ "
" 15 "	30/ "	" 45	17/6 "
" 16	27/6 "	" 46	*price on application.*
" 17 "	3/6 *per ft.*, mitres 4/ *each.*	" 47	10/6 *each.*
" 18 "	3/9 "	" 48	7/ *per foot run.*
" 19 "	30/ *per* 100 *Bricks.*	" 49	1/ " including risers. returns 1/6 *ea.* square or round.
" 20 "	3/ *each.*	" 50	/2 *per foot run.*
" 21 "	5/6 "	" 51	/2 " "
" 22 "	2/ "	Angles	/6 *each.*
" 23 "	1/6 *per ft.*; mitres 2/ *each.*	" 52	5/ "
" 24 "	4/ *each*	" 53	/4 *per foot run.*
" 25 "	/4 "	" 54	7/6 *each.*
" 26 "	2/ *per ft. run*; mitres 2/6	" 55	25/ "
" 27 "	3/6 " " " 4/		
" 28 "	/4 *each*		
" 29 "	1/6 *per ft run*, mitres 2/		

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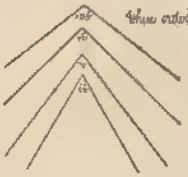
Ridge Tiles
Sheet No 4

J. K. COOPER & SONS.

PINKNEYS GREEN MAIDENHEAD.



Where ordering please state pitch required.

Scale 0 14 3 6 9 12 in

THESE Tiles have a peculiarly smooth surface, and consequently retain their colou for a very long time; but this circumstance being objected to by some architects, J. K. C. & Sons beg to state that, on receiving a month's notice, they will supply them of the same material and colour, but with a rough surface, so as to ensure their acquiring a softer tone from exposure to the atmosphere. They will also, if requested, supply them in brown slate, or strawberry colour.

These patterns having been surreptitiously copied the Tiles, etc., manufactured by J. K. C. & Sons will, in future, bear their Trade Mark.

ARCHITECTS' OWN DESIGNS CAREFULLY AND PROMPTLY EXECUTED.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Sheet No. 5

J. K. COOPER & SONS,

PINKNEYS GREEN MAIDENHEAD

All these tiles are stamped with the Makers trade mark in consequence of these designs having been surreptitiously copied.

These Tiles can be made either of a smooth surface, in which case they will retain for a long time their colour. Or if desired they can be finished with a rough surface so as to ensure their acquiring a softer tone from exposure to the atmosphere. They are usually of a red colour, but if desired can be supplied in brown slate or strawberry tints. J.K.C. and Sons beg to give notice that in order to ensure punctual delivery a month's notice of all orders should be given as it is impossible to keep all their numerous patterns in stock.

Architects' own Designs carefully executed.

Hare sc.

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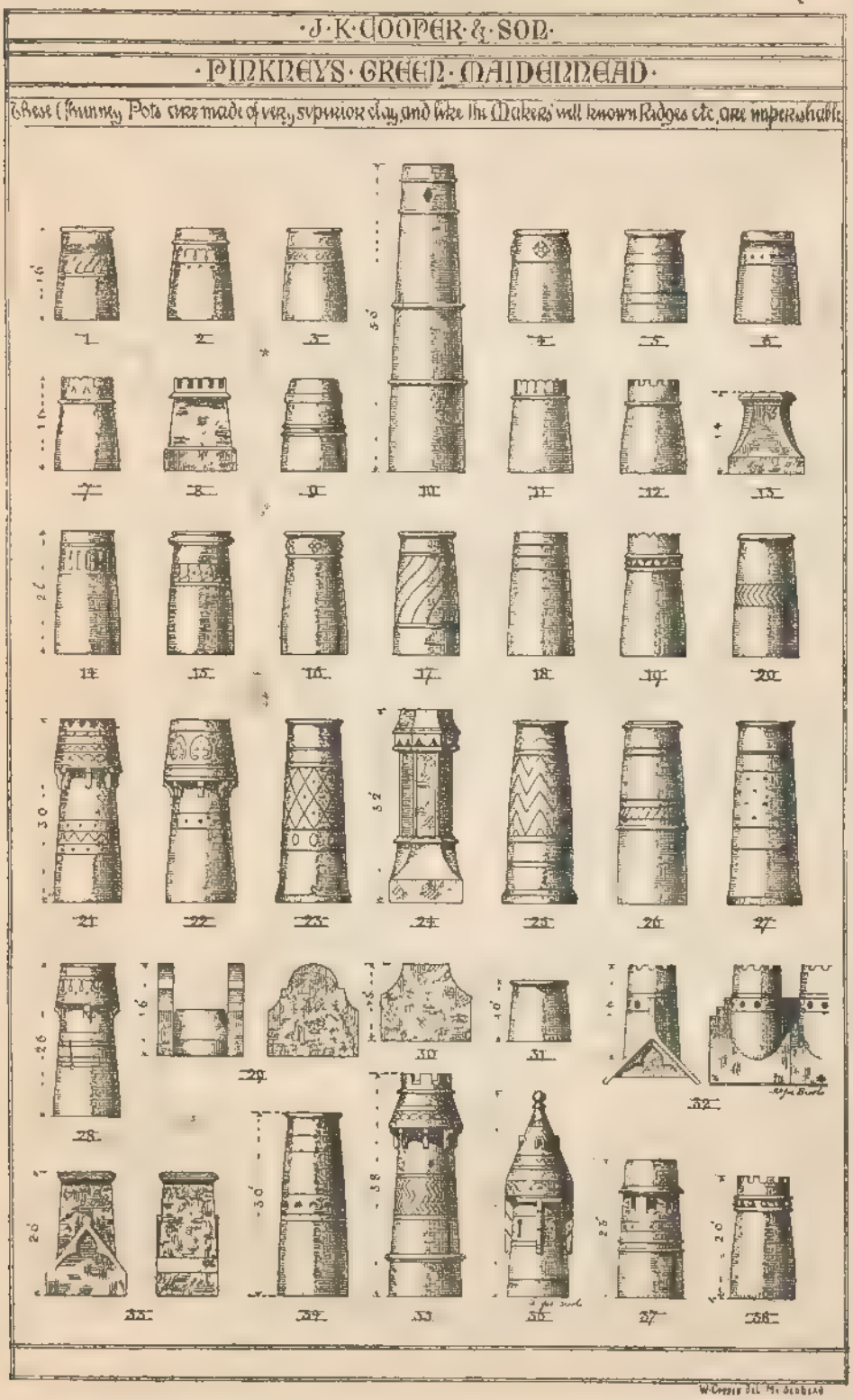
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Sheet No. 7.



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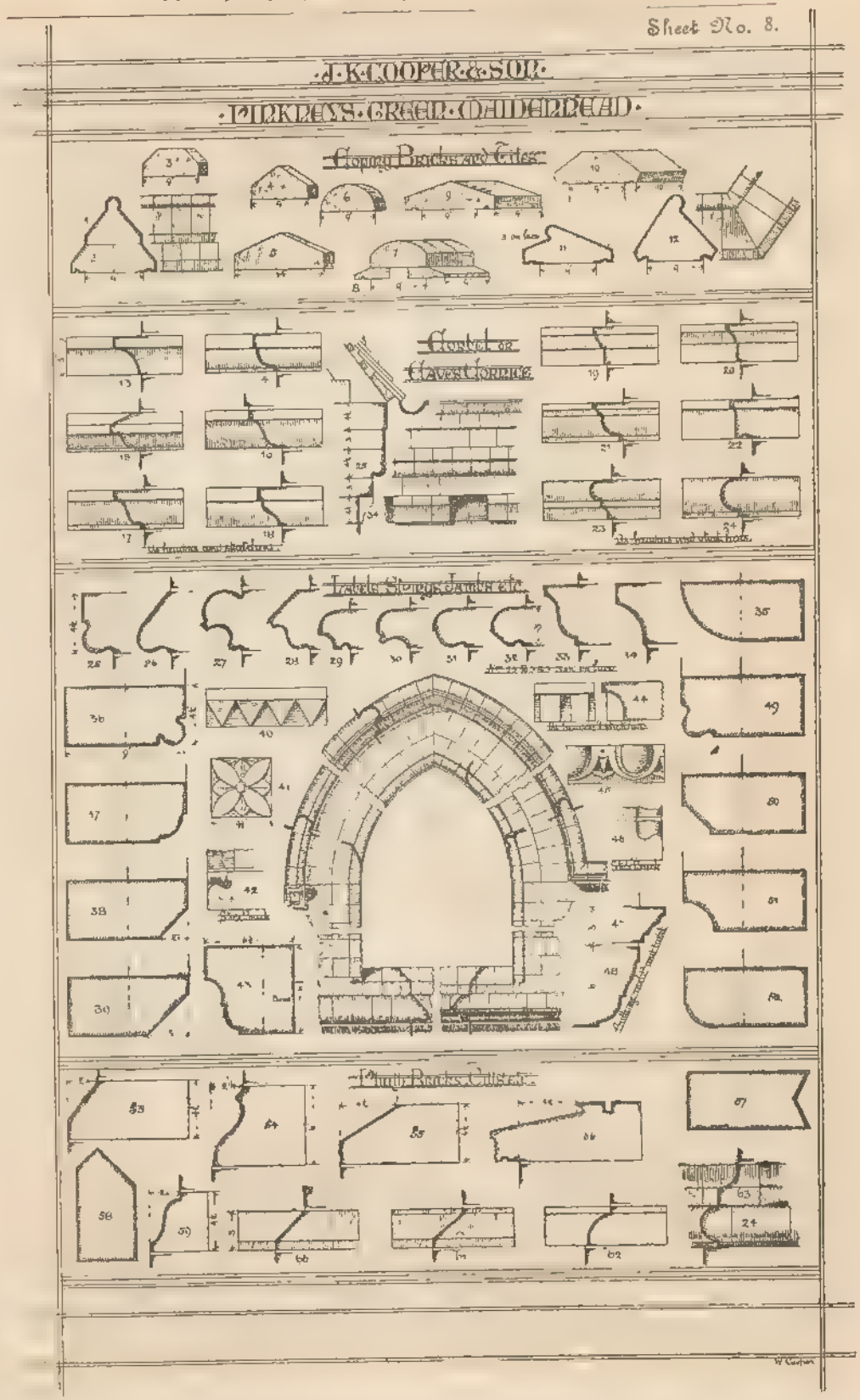

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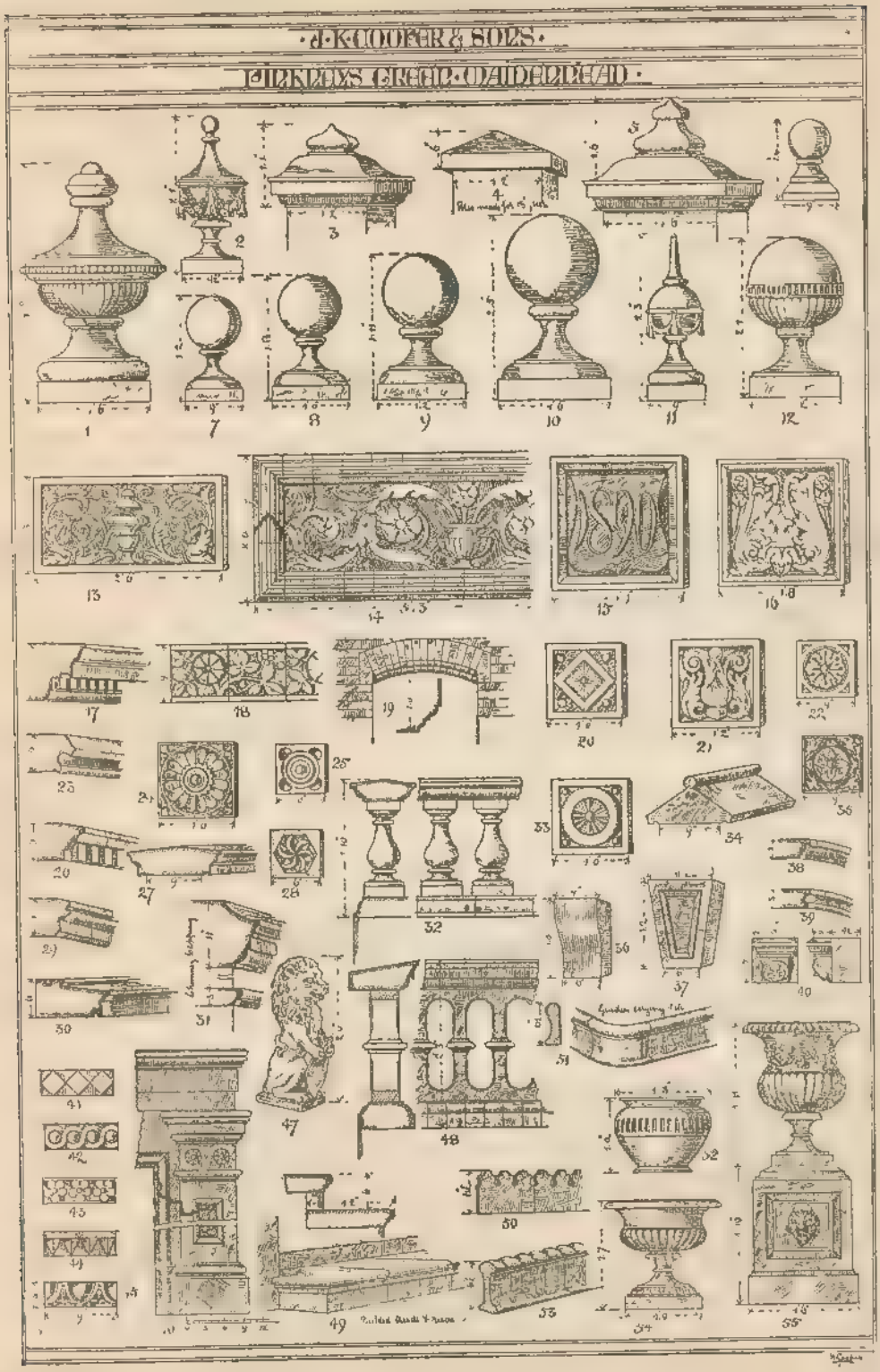
A—BRICKS, TILES, AND TERRA COTTA.

Sheet No. 9.



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IMPORTANT NOTICE.

BROSELEY TILES.

IN consequence of numerous persons representing themselves as Manufacturers of the "Celebrated Broseley Roofing Tiles," we, the undersigned firms, beg to inform the public that we are the only manufacturers of these Tiles at "Broseley, Shropshire"—the seam of clay from which they are made being only found at Broseley, from which place they derive their name.

Broseley Tileries Co. (Limited).	Davis, G. & F.	Hopley & Duncan.	Maw & Co. (Limited).
Burton & Sons.	Doughty, John.	Jones, W. & P.	Madeley Wood Co.
Coalbrookdale Co. (Ltd.)	Exley, W. & Sons.	Legge, G. & Son.	Prestage & Co.
	Haughton, R. D		

Telegraphic Address: HAUGHTON, JACKFIELD

RICHARD D. HAUGHTON,

HOLLY GROVE PATENT TILE WORKS, JACKFIELD, BROSELEY, SHROPSHIRE.

MANUFACTURER OF

PRESSED BROSELEY ROOFING TILES, PLAIN & ORNAMENTAL,

IN RED, STRAWBERRY, BRINDLED BROWN, AND BLUE.

HIPS, VALLEYS, ANGLE TILES, RIDGE TILES, &c., &c.,

Also SOLE MANUFACTURER of WILKINSON IMPROVED PATENT ROOFING TILES.

THE MADELEY WOOD COMPANY,

Telegraphic Address—"IRON, MADELEY, SALOP." IRONBRIDGE, R.S.O., SHROPSHIRE.

Manufacturers of

BEST ❋ BROSELEY ❋ ROOFING ❋ TILES.

IN RED, BRINDLED, STRAWBERRY, BROWN OR BLUE COLOURS.

Plain and Ornamental Ridge Tiles, Finials, Hip, Valley and Angle Tiles, Best White Facing Bricks, Plinths, &c., Fire Bricks, Flooring Squares in Red, Blue and Buff Colours, and all kinds of Brick-kiln Goods.

A Square of Roofing Tiles, 600 in number, weighs from 11 to 12 cwts.—the Tiles measuring 10½ × 6½.

WHEN ORDERING RIDGE, HIP, OR VALLEY TILES, THE PITCH OF THE ROOF SHOULD BE GIVEN.

Price Lists, Pattern Sheets, and full Particulars on application.

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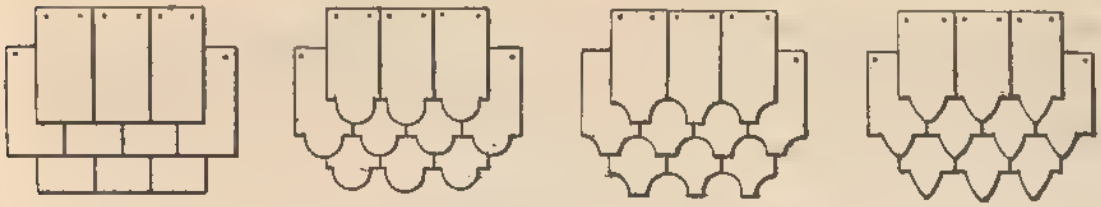

ROOFING TILES.

PRESTAGE & CO.,

THE MILBURG TILERIES,

BROSELEY, SALOP.

Manufacturers of

PLAIN & ORNAMENTAL ROOFING TILES, PRESSED HIP & VALLEY TILES, RIDGES, FINIALS, &c., BROWN, BRINDLE, STRAWBERRY, or RED.

W. & P. JONES.

BROSELEY, SHROPSHIRE,

MANUFACTURERS OF THE

REAL BROSELEY ROOFING TILES.

PLAIN, PRESSED and ORNAMENTAL, in RED, STRAWBERRY BROWN, BRINDLED, & BLUE COLOURS.

PLAIN & ORNAMENTAL ROOFING RIDGES, GARDEN BORDER TILES, FLOORING SQUARES, &c.

Drain and Socket Pipes from 2 to 12 inches diameter. Also Sole Manufacturers of JONES' PATENT HIP, VALLEY, & ANGLE TILES

Price Lists and Patterns sent on application *Please say if inquiries are made through this Advertisement*

Telegraphic Address—"JONES, BROSELEY"

THE TIBBINGTON COLLIERIES & BRICKWORKS, LIMITED,

TIPTON, STAFFORDSHIRE.

Manufacturers of Glazed Stoneware Sanitary Pipes, Terra Cotta Chimney Pots,

AND ALL DESCRIPTIONS OF

Vitrified Blue Bricks, Brindled Bricks, Common Red and Best Red Facing Bricks,

AGRICULTURAL DRAIN PIPES, STOURBRIDGE FIRE BRICKS, &c

Works: TIPTON, STAFFORDSHIRE. Established 1847.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

GIBBS & CANNING

Manufacturers,

TAMWORTH.

NATURAL HISTORY MUSEUM, SOUTH KENSINGTON. A. WATERHOUSE, R.A., Architect.

The Internal and External face of this Building is entirely composed of our Terra Cotta.

OTHER EXAMPLES OF OUR WORK.

Prudential Insurance Offices Holborn and Portsmouth. Kensington Court Mansions—Premises Minories and Corporation Street, Birmingham—All Souls Church Eastbourne Central Technical Institute South Kensington St Margaret's Mansions Victoria Street, Westminster Royal Aquarium and Hospital Great Yarmouth Birmingham Theological College—Dock Offices and Dispensary, Bristol—Girton College, Cambridge Victoria Assize Courts and Capital and Counties Bank, Birmingham—Mansion for A Waterhouse, Esq, R.A.; and many other important Buildings.

ESTIMATES GIVEN FROM ARCHITECTS' SPECIFICATIONS AND DESIGNS.

SPECIALITIES:

ARCHITECTURAL TERRA-COTTA IN BUFF AND RED.

FAST OR LOOSE NOZZLES.

CANE-COLOUR GLAZED SINKS.

In sizes from 15 ins. to 48 ins.

FAST OR LOOSE NOZZLES.

WHITE GLAZED BRICKS.

Glazed Sanitary Pipes and Appliances.

PRICE LISTS AND PATTERN SHEETS ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

J. C. EDWARDS Ruabon

Lustre Tiles.

Plate X

For Fireplaces, Wall Decoration, Cabinet Work, &c. &c.

THESE PATTERNS AND A VARIETY OF OTHERS CAN ALSO BE SUPPLIED IN ANGLO PERSIAN TILES.

SCALE 3 INCHES TO ONE FOOT

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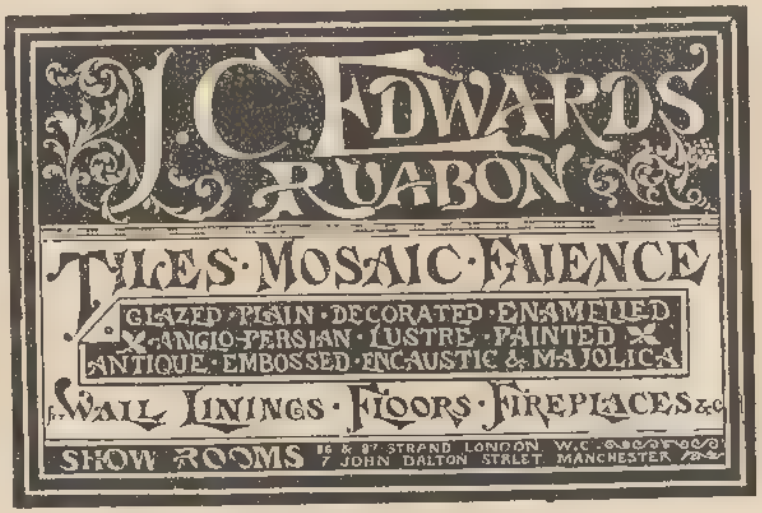

TELEGRAPHIC ADDRESS EDWARDS RUABON

PLAIN & ORNAMENTAL TILES & MOSAICS FOR FLOORS & WALL & FIREPLACE DECORATION.

ENCAUSTIC AND GEOMETRICAL MOSAIC PAVEMENTS in which the patterns are formed of Plain and Encaustic Tiles and Vitreous Tesseræ of various forms, sizes, and colours, suitable for Halls, Corridors, Balconies, Verandahs, Conservatories, Lavatories, &c., in Public and Private Buildings; also used for Floors in Ship's Saloons, Cabins, Pantries, &c., &c.

GLAZED ENCAUSTIC AND INCISED TILES—exact reproductions of the best mediæval examples—specially suitable in connection with plain tiles for Church pavements.

ANGLO-ROMAN AND MISCHIATO MOSAICS—composed of separate Ceramic Tesseræ, after the manner of the ancient examples.

GLAZED AND ENAMELLED TILES in an almost endless variety of colours. Embossed, Incised, Rough Surfaced, Plain Glazed, Majolica, Barbotine Painted Tiles, and Slabs of Slips, Lustred Mosaic, &c., for Hearths, Panels, &c., &c.

LUSTRE TILES rivalling the finest mediæval Italian and Spanish examples, combining with the gorgeous effects of burnished metals the iridescent colours of the Rainbow.

ANGLO-PERSIAN TILES in a large variety of designs and colourings—reproductions of the beautiful ancient Persian Tiles.

GLAZED WHITE, IVORY, CELADON, TURQUOISE, AZURE, SEA, OLIVE, and all the usual variety of Tinted and Toned Tiles for Wall Linings, &c.

FAIENCE AND TILE FIREPLACES AND FENDER KERBS, SLABBED TILE HEARTHS, and small glazed Bricks, square and bevelled, specially suitable for Fireplace Linings, Skirting and Moulding Tiles for Hearths, caps, beads, &c., in a variety of sections and colourings.

WHITE GLAZED AND COLOURED ENAMEL BRICKS, made from specially selected clays, burnt at such a great heat that the enamel forms part of the Brick, therefore [illegible] imperishable.

PATTERNS, PRICES, AND SAMPLES ON APPLICATION.

J. C. EDWARDS RUABON

TILES · MOSAIC · FAIENCE

GLAZED · PLAIN · DECORATED · ENAMELLED
ANGLO-PERSIAN · LUSTRE · PAINTED
ANTIQUE · EMBOSSED · ENCAUSTIC · MAJOLICA

for WALL LININGS · FLOORS · FIREPLACES &c

WHITE GLAZED & COLOURED

ENAMELLED BRICKS

OF · UNEQUALLED · QUALITY

IVORY WHITE & ALL COLOURS UNEQUALLED FOR GENERAL EXCELLENCE
GOOD IN COLOUR AND THE GLAZE HARD & DURABLE

RED TERRA-COTTA

MADE FROM THE FAMOUS BED OF CLAY AT PEN-Y-BONT RUABON. PERFECTLY FREE FROM EITHER WASH OR THE SURFACE INK STAIN. BRIGHT RED BEING THE NATURAL COLOUR OF THE CLAY WHEN BURNT VERY HARD AND NON POROUS AND HAS A CLEAN SMOOTH SURFACE AND NEVER DECAYS.

BUFF TERRA-COTTA

A THOROUGHLY GOOD AND SOUND MATERIAL IS BURNT HARD, AND WILL KEEP ITS COLOUR, AND ALWAYS LOOKS FRESH AND CLEAN.

PINK TERRA-COTTA

A NEW COLOUR MADE FROM PURE CLAYS AND WITHOUT ANY STAIN, VERY HARD AND DURABLE

RED, BUFF, PINK & BLUE FACING BRICKS, MOULDED BRICKS, &c
MADE FROM THE SAME CLAY AS THE TERRA-COTTA, UNDOUBTEDLY THE BEST BRICKS MADE.

ORNAMENTAL RIDGE TILES FINIALS AND TERMINALS
PATENT MACHINE MADE & PRESSED

ROOFING TILES

RED BROWN, BRINDLED OR BLUE.

· THE · PRODUCTS OF THESE WORKS COMPRISE EVERY REQUISITE MADE IN CLAY FOR BUILDING AND ENGINEERING PURPOSES.

THERE IS but ONE STANDARD · OF QUALITY · and that is the HIGHEST

PATTERNS PRICES and SAMPLES on APPLICATION

· RUABON · BLUE VITRIFIED · GOODS ·

IMPERISHABLE BLUE VITRIFIED ADAMANTINE PAVING CLINKERS, STABLE BRICKS &c
EVERY DESCRIPTION OF HIGHLY GLAZED SANITARY STONEWARE SINKS GULLIES
SEWERAGE & DRAINAGE PIPES
R. NORMAN SHAW'S & T. L. WATSON'S PATENT CHANNEL DRAINPIPES. DEAN'S PATENT TRAPS &c.

TREFYNANT	BUFF BRICK AND TERRA COTTA, GLAZED SANITARY STONEWARE, TESSELATED AND ENCAUSTIC TILE	WORKS.
PEN-Y-BONT	RED BRICK AND TERRA COTTA BLUE BRICK AND ROOFING TILE	WORKS.
RHOS	WHITE AND COLOURED GLAZED AND ENAMELLED BRICK	WORKS.

PLASKYNASTON POTTERIES, **Ruabon.**

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Argyll Chambers, 86 & 87, Strand, W.C.
R. H. JOHNSON, Agent.

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Glasgow Office—
27, Oswald Street
W. H. [illegible], Agent

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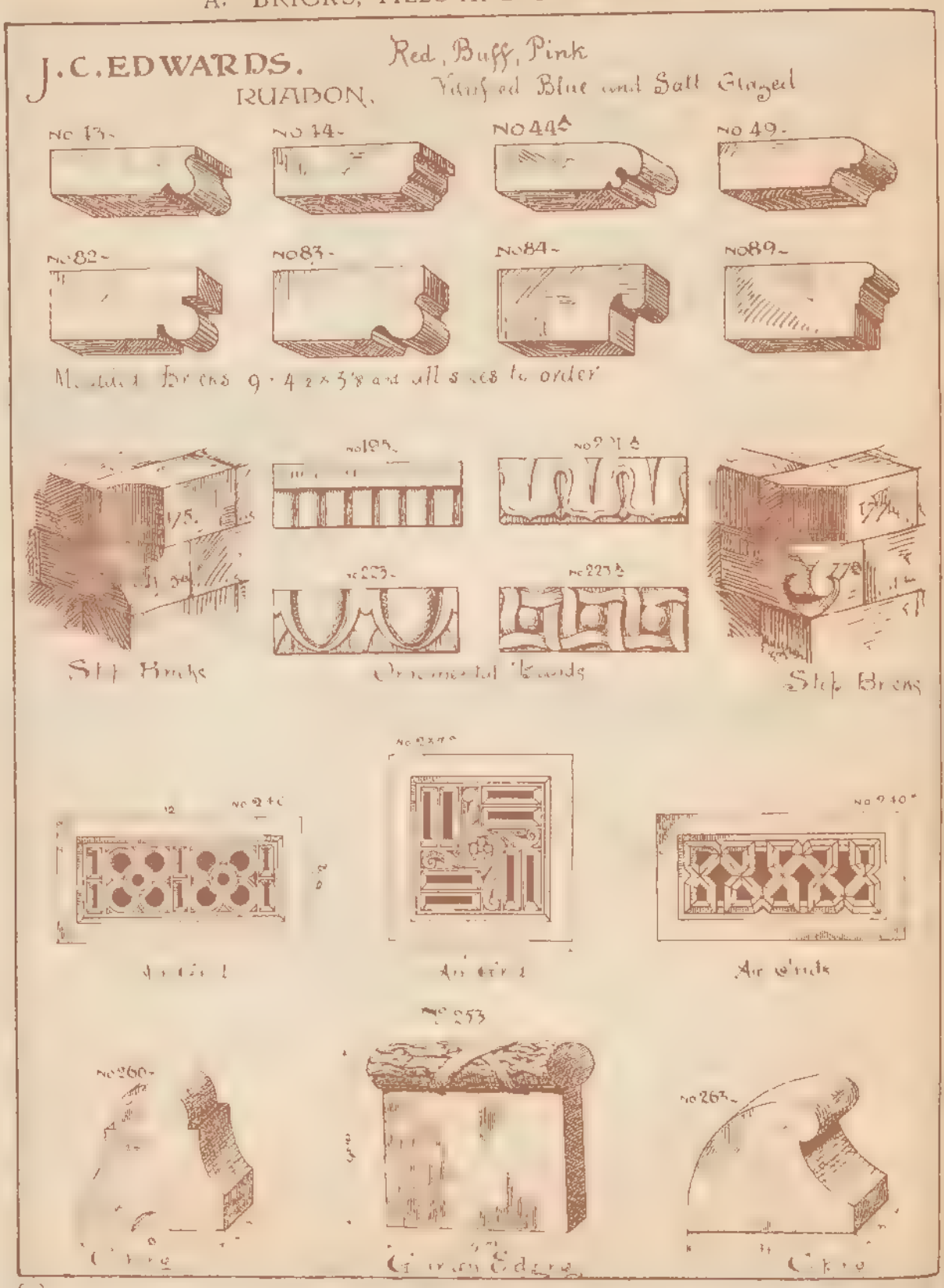

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J.C. EDWARDS & RUAISON Terra Cotta, Paterae in Red, Buff, Pink or Blue

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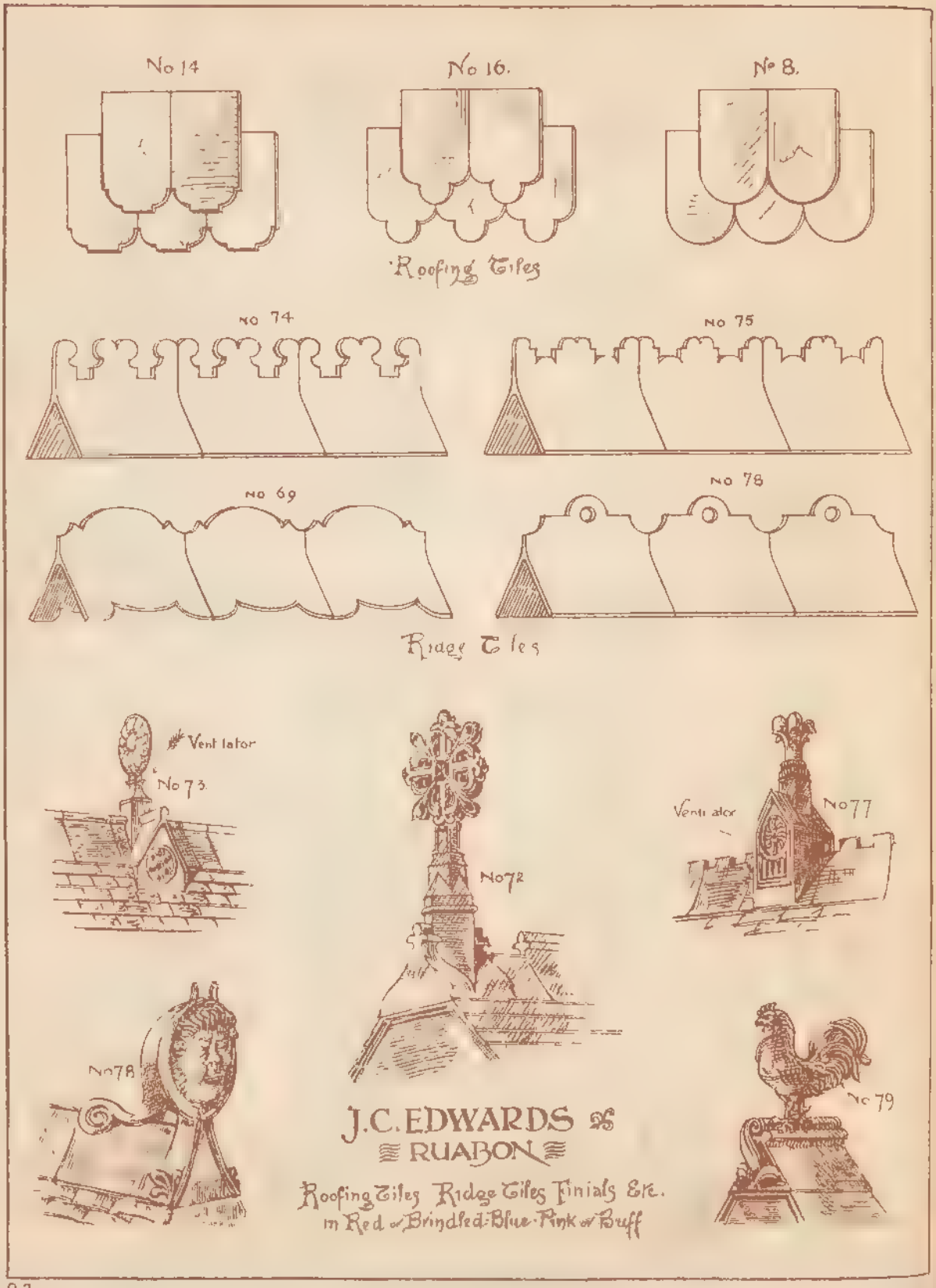

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PRIZE MEDALS AWARDED.

By Royal Letters Patents for England and France.

LONDON, 1851.

LONDON, 1862.

TWO PRIZE MEDALS.

PARIS, 1867

MEDAL & DIPLOMA

M. H. BLANCHARD & CO.,

Bishop's Waltham Terra Cotta, Staffordshire Blue Brick and Tile Works,

BISHOP'S WALTHAM, HANTS.

THE **RED FACING AND MOULDED BRICKS** are of a Superior Quality, being close in texture and of good colour, well made and properly fired, and have been largely used by many of the leading Architects of the day, and we take the opportunity of mentioning a few of the Buildings where they have been extensively used—

THE PARK LANE MANSIONS, W.
UPPER BERKLEY STREET MANSIONS, W.
ST. PAUL'S SCHOOLS, KENSINGTON, W.
ALEXANDRA HOUSE, or STUDENTS' HOME, near ALBERT HALL, W.
CAREY STREET IMPROVEMENTS, LINCOLN'S INN, W.C.
HIGH SCHOOL FOR GIRLS, FITZ JOHN AVENUE, HAMPSTEAD.
SIR RD. CARR GLYN'S MANSION AT WIMBORNE.
THE RIGHT HON. EARL NORTHESK'S NEW MANSION, LONGWOOD, HANTS.
CRAWLEY COURTS MANSIONS, HANTS, and
MANY RESIDENCES IN LONDON AND THE PROVINCES.

The **MACHINE WIRE CUT BRICKS** are made to work with the FACERS, and are celebrated for their hardness and adamantine character, being non-absorbent and capable of sustaining heavy weights, and have been tested by Messrs. KIRKALDY, and bore a pressure of 230 Tons. Many Millions have been supplied for Railways, Sewers, General Buildings, and such like purposes.

MANUFACTURERS OF

M. H. BLANCHARD'S PATENT IMPROVED BRICKS,

FOR WELLS, MANHOLES, AND SUCH LIKE PURPOSES.

Rates, Prices, and all information forwarded upon application to

M. H. BLANCHARD & CO.,

(Successors to COADES. ESTABLISHED 1769.)

MANUFACTURERS to the ROYAL FAMILY and SEVERAL DEPARTMENTS of BRITISH and FOREIGN GOVERNMENTS,

BISHOP'S WALTHAM, HANTS.

Telegraphic Address: "BLANCHARD, BISHOP'S WALTHAM."

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PRIZE MEDALS AWARDED.

LONDON 1851.

LONDON, 1862 TWO PRIZE MEDALS.

By Royal Letters Patents for England and France.

PARIS 1867. MEDAL & DIPLOMA.

M. H. BLANCHARD & CO.,

Bishop's Waltham Terra Cotta, Staffordshire Blue Brick and Tile Works,

BISHOP'S WALTHAM, HANTS.

M. H. BLANCHARD & CO. (successors to COADES), established 1769, wish respectfully to make known to the Nobility, Gentry, Architects, Engineers, Builders, and others, that they have given up their London Show Rooms at Blackfriars Road, LONDON, S.E. (where their TERRA COTTA business has been carried on by them for the last Forty years), and have concentrated their business upon their more extensive Freehold Works at BISHOP'S WALTHAM, HANTS, where they possess some of the finest beds of CLAYS known in the United Kingdom for the manufacture of TERRA COTTA, RED, and STAFFORDSHIRE BLUE GOODS of every kind, which, together with their great facilities of manufacture, and the advantages of railway accommodation, will enable them to submit goods of a first-class manufacture at lower prices when compared with goods of a similar kind.

The whole of the Goods that are being produced are by first-class Workmen in each department.

The ROOFING TILES, which are equal to the Broseley Best Tiles, or any made in the Midland Counties, have, by reason of their approved colour, lightness, hardness, and durability, gained general favour, and are frequently specified.

The PAVING QUARRIES AND TILES are of a superior quality to any of a similar class. The BLUE VITRIFIED GOODS are equal to the best goods made in Staffordshire, and having lately increased our Machinery, and carried out many improvements and facilities for producing Goods of First-class Quality, which will be found to be unequalled in Price when compared with Goods of a similar manufacture.

The following advantages are offered to purchasers buying at these Works:—that the Goods can be loaded direct into trucks at the Works, thereby saving expense and damage done in loading and unloading, and that we have made special arrangements with the L. & S. W. Railway Company for low rates for Conveyance of our Goods to any station on their line. These advantages will be found worthy of Special Attention.

All Orders that may be entrusted to us will receive careful and prompt attention; and for further information please address as above.

M. H. BLANCHARD & CO.

(Successors to COADES. ESTABLISHED 1769).

MANUFACTURERS to the ROYAL FAMILY and the SEVERAL DEPARTMENTS of BRITISH and FOREIGN GOVERNMENTS,

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Portland Cement, Plaster, Keene's & Parian Cements, Grey Stone and Blue Lias Lime.

F. ROSHER & Co.,

Lime, Cement, Brick, Tile & Slate Merchants.

LONDON WHARVES—

BLACKFRIARS (Head Office).—Old Jamaica Wharf, Upper Ground Street, S.E. Telephone No 4753.
CHELSEA.—King's Road (corner of Church St.), & Oak Wharf, Lot's Road, S.W. Telephone No. 8598.
KINGSLAND.—Kingsland Basin, Kingsland Road, E. Telephone No. 848.
LIMEHOUSE.—Lime Kiln Hill, Three Colt Street, E. Telephone No. 5077.

WORKS—

CROWN QUAY CEMENT WORKS.—Sittingbourne, Kent.

A large Stock of all kinds of Building Materials (as under) kept at the Wharves.

ALL ORDERS PROMPTLY EXECUTED FROM WHARF OR DIRECT FROM WORKS.

GREY STONE, CHALK, FLARE & BLUE LIAS LIME.

PORTLAND ROMAN, KEENE'S AND PARIAN CEMENTS, PLASTER (COARSE AND FINE).

COWLEY and KENT BRICKS, by Cart or Barge.

MOULDED BRICKS IN GREAT VARIETY.
Wall Coping Bricks of every description.
Yellow and Pale Malm Cutters, Seconds, Paviors: Blue Staffordshire Bricks.
White, Black and Red Rubbers.
Staffordshire Ornamental Paving Tiles, in Red, Blue and Buff.
Terro-Metallic Grooved Stable Bricks, Channel Bricks and Clinkers; and Adamantine Clinkers.

WHITE and RED SUFFOLK FACING BRICKS.

ALSO

ENCAUSTIC PAVEMENTS OF ENRICHED DESIGNS.
ORNAMENTAL ROOFING AND RIDGE TILES, Blue or Red, with Crestings in great variety.
Dutch & English White Glazed Tiles, for Wall Linings of Baths, Larders, Dairies Shops, Kitchen Ranges, Fireplaces, &c.
Welsh, Newcastle and Stourbridge Fire Bricks, Lumps, and Tiles, of every description and size.
Terra-Cotta Chimney Tops in great variety of design.

GARDEN VASES AND BALUSTRADING.

TRUSSES, TERMINALS, IN ARTIFICIAL STONE.

Also GARDEN EDGINGS, FOUNTAINS, &c.

Asphalte Roofing and Sarking Felt. Hair, Laths, Whiting, Sand, Ballast, and other Building Materials.

PHILLIPS' PATENT LOCK-JAW ROOFING TILE.

Illustrated Price Lists on Application.

SPECIAL QUOTATIONS FOR TRUCK LOADS OR FREIGHTS TO ANY RAILWAY STATION OR PORT IN THE KINGDOM.

Telegraphic Address—"ROSHER, LONDON."

[*See Page* 129

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

MAW & CO., *Limited,*

Benthall Works, Jackfield, Shropshire

MAW & CO.'S

Plain and Ornamental Tiles and Mosaics

for every description of Floors, Walls, and Fire-place Decoration.

DURING A PERIOD OF ABOUT FORTY YEARS SINCE THE ESTABLISHMENT OF THE FIRM, MAW & CO. HAVE, BY THE FREQUENT PRODUCTION OF FRESH BRANCHES OF MANUFACTURE, MAINLY DEVELOPED THE NOW ALMOST UNIVERSAL APPLICATION OF TILE WORK TO THE PURPOSES OF INTERNAL AND EXTERNAL PERMANENT DECORATION. THE FOLLOWING ARE SOME OF THE DESCRIPTIONS PRODUCED :—

ENCAUSTIC OR INLAID TILES.—From a simple, to the richest and most elaborate colouring and design for Pavements, either alone, or in combination with plain tiles, and tessera, for Public and Private Modern Buildings.

ENCAUSTIC TILES. Made in exact reproduction of the mediæval examples, and specially suitable in combination with plain or glazed tiles for Church Pavements.

GEOMETRICAL MOSAIC PAVEMENTS.—In which the pattern is formed of plain tiles and viterous tessera, of various forms, sizes and colours

ROMAN MOSAIC PAVEMENTS. Composed of separate ceramic tessera, after the manner of the ancient examples.

PATENT MOSAIC TILES. Affording effective imitations of the above, at a less cost, and with greater facility in fixing.

PLAIN AND COLOURED INCISED TILES.—In which the pattern is outlined by incised lines, to be filled in with cement

INTAGLIO TILES.—In which the above is combined with modelling of the face, so as to relieve the flatness of surface in a Pavement of one uniform colour.

FOR WALL & FIRE-PLACE LININGS.—The following may be mentioned amongst the productions of the Firm: Plain Enamelled Tiles, of an almost infinite variety of transparent and opaque colours; Embossed Enamelled Tiles, covered with transparent enamel, as above; Patent Natural Surface Enamel Tiles; Chromo-Embossed Tiles; Chromatic Faïence Tiles; Relief-Enamel Tiles; Benthall Ware Tiles; Incised Enamelled Tiles; Mosaic Slabs of glazed and lustred tessera, and the more costly description of Hand Painted; Barbotine Painted Tiles; Re-productions of the beautiful Ancient Persian Tiles, but especially their Ruby and D'Oro Lustre Tiles and Ware, which rival the finest works of Maestro Georgeo, and the Mediæval Spanish Productions, combining with the gorgeous effects of Burnished Gold and Silver, the irridescent colours of the Rainbow.

Special Designs are provided for Pavement or Wall Decorations to suit the Architectural styles of Buildings, or the effects of Colouring desired.

MAW & CO.'S Pattern Book designed by the late Sir M. D. WYATT, OWEN JONES, J. P. SEDDON, G. E. STREET, R.A., G. GOLDIE, H. B. GARLING, WALTER CRAZY and the first designers of the day, forwarded on application. Drawings of any of the designs, adapted to plans or dimensions of spaces proposed to be paved, accompanied by estimates of cost, including high experienced workmen, will be forwarded on application. Applicants for patterns should state the purpose and style of building for which they are required

SAMPLES FORWARDED ON APPLICATION.

Work has been executed for the following persons and at the following places by MAW & Co.

HER MOST GRACIOUS MAJESTY THE QUEEN.

H.R.H. the Prince of Wales.
His Imperial Majesty Alexander II of Russia.
His Highness the Khedive of Egypt.
The Maharajah Dhuleep Singh.
The Duke of Bedford.
The Duke of Devonshire, K.G.
The Duke of Hamilton.
The Duke of Norfolk.
The Duke of Portland
The Duke of Rutland, K.G.
The Duke of Sutherland
The Duke of Wellington, K.G.
The Duke of Westminster, K.G.
The Marquis of Bristol
The Marquis of Bute
The Marquis of [illegible]
The Marquis of [illegible]
The Marquis of Lansdowne.
The Marquis of Northampton.
The Marquis of Salisbury, K.G.
The Earl of Beaconsfield, K.G.
The Earl of Beauchamp.
The Earl de Grey and Ripon, K.G.
The Earl of Derby.
The Earl of Dudley.
The Earl of Portsmouth.
The Earl of Powis.
The Countess of Chesterfield.
Lord John Manners.
Lady Herbert of Lea.
Sir Titus Salt, Bart.
Sir Watkin W. Wynn, Bart.
The Lord Bishop of Ripon.
The Corporation of York.
The Corporation of Manchester.
Imperial Austrian Commission, and numerous others.

Chester Cathedral.
Bangor Cathedral
St. Asaph Cathedral.
Edinburgh Cathedral.
Manchester Cathedral.
Bristol Cathedral.
South Kensington Museum.
Post Office, Bombay.
Town Hall, Sydney
Euston Hotel, London
Great Western Hotels, London and Birmingham
Inns of Court Hotel
Offices of North British Mercantile Assurance Co
Hypothecary Bank, Buenos Ayres.
Foreign Office
Criterion Restaurant.
Hastings Public Baths & Aquarium
Toronto University.
Fishmongers' Hall, London.
Royal Naval Hospital, Plymouth.
Central Telegraph Office, New York.
Holborn Viaduct Hotel.
Glamorgan County Asylum.
Town Hall, Balaratt.
Victoria Hotel, Bradford.
Museum of Science and Art, Edinburgh.
Grand Hotel, Scarborough.
County Hotel, Carlisle
Pembroke College, Cambridge.
Balliol College, Oxford.
Offices of Liverpool and London and Globe Assurance Co.
Convent of Notre Dame, Liverpool.
Bradford Cathedral.
British Linen Bank, Dundee.
Clifton College, Bristol.
And numerous Churches, Mansions, and other buildings.

Amongst the Works in progress are the Wall and Pavement Decorations of St. Paul's Cathedral and the Parliament House, Melbourne; The New Portsmouth Town Hall, and other important Public Buildings.

Benthall Works, Jackfield, Shropshire.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

PANELS in Underglaze & Lustre

AS EXHIBITED AT THE

Paris Exhibition,

1889.

Gold Medal

AWARDED TO
Messrs. MAW & CO., Limited.

Press Opinion.

This beautiful exhibit was very deservedly awarded a Gold Medal at the Paris [illegible] last year [illegible] the last few years [illegible] very largely to [illegible] the quality of British manufactures in the direction of their own particular industry. [illegible] they have taken a position in the very front rank of artistic manufacture. If they continue [illegible] good design, [illegible] support of our [illegible] architects and designers [illegible] mented. In this [illegible] departure than as a precedent. It has been attempted in it to steer clear on the one hand of the rudeness of old work, and on the other of the mechanical hardness of [illegible] presents just unevenness enough to give value to the reflections to which all lustre owes so much of its charm. The three panels were designed by [illegible]

The panel to the left of our illustration is in a subdued key of colour, painted in monochrome under glaze, with a background of silver lustre. This neutral blue and silver [illegible]

carved work of the [illegible] upon the pottery of Maestro Georgio, the details [illegible] The design is [illegible] he figures were drawn by Mr. George McCulloch. [illegible] The adjoining [illegible] a sort of pattern sheet out of the Catalogue of Messrs. Maw [illegible] together with [illegible] enameled and other tiles for hearths, etc. [illegible] depends [illegible] these qualities [illegible] our, smoothness [illegible]

Maw & Company, Ltd., Jackfield, Shropshire.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegrams to "PEAKE, TUNSTALL, STAFF."

Thomas Peake,

"THE TILERIES,"

TUNSTALL, STAFFORDSHIRE.

Prize Medals

London, 1851. ❀ Paris, 1867. ❀ Philadelphia, 1876.

MANUFACTURER OF

ROOFING TILES, Plain & Ornamental (Trade Mark "Perfecta")
RIDGE TILES in great variety, Blue and Red.
FINIALS for Gables and Hips, more than 100 designs.
PRESSED PAVING TILES, Blue, Red and Buff, ordinary Quality, at from 1/4 per yard, super.
PRESSED PAVING TILES, Blue, Red and Buff, medium Quality, at from 1/7 per yard, super.
PAVING TILES, Blue, Red, Buff and Black, of superior quality, for Churches, Schools, Conservatories, &c. (W. Brand) at from 2/9 per yard, super.
PAVING TILES, Best Tesselated, Plain Colours, at from 5/- per yard, super.
PAVING TILES, 2nd quality, Tesselated, Plain Colours, at from 3 - per yard, super.
GARDEN BORDER TILES, Imperishable Blue Terra Metallic.
RED FACING and STRING COURSE BRICKS.
BLUE FACING and STRING COURSE BRICKS.
BLUE ACID-RESISTING BRICKS for Chemical Works and Glovers' Towers
BLUE WALL COPING BRICKS.
BLUE and BUFF ADAMANTINE CLINKERS.
AIR or VENTILATING BRICKS.
MALT KILN TILES.
MANGER BRICKS and SOUGH GRATES.
FIRE BRICKS, LUMPS, QUARRIES, &c.
HARCOURT THOMSON'S PATENT VENTILATING RIDGES.
TERRA-COTTA PANELS & MURAL TILES in great variety.

LARGE and well assorted Stocks of the above Goods are always on hand, also White Glazed Wall Tiles, Printed Tiles for Hearths, &c., Cane and White Hoppers and Traps, Closet Pans, Glazed Stoneware Socket Pipes, Gullies, Syphons, and Glazed Kitchen Sinks, Buff and Red Chimney Pots, &c., &c.

These Brick and Tile Works are the most extensive in North Staffordshire. Steam Brickmaking and Patent Tile Making Machinery have recently been added to the plant, thus materially increasing the production of this class of goods.

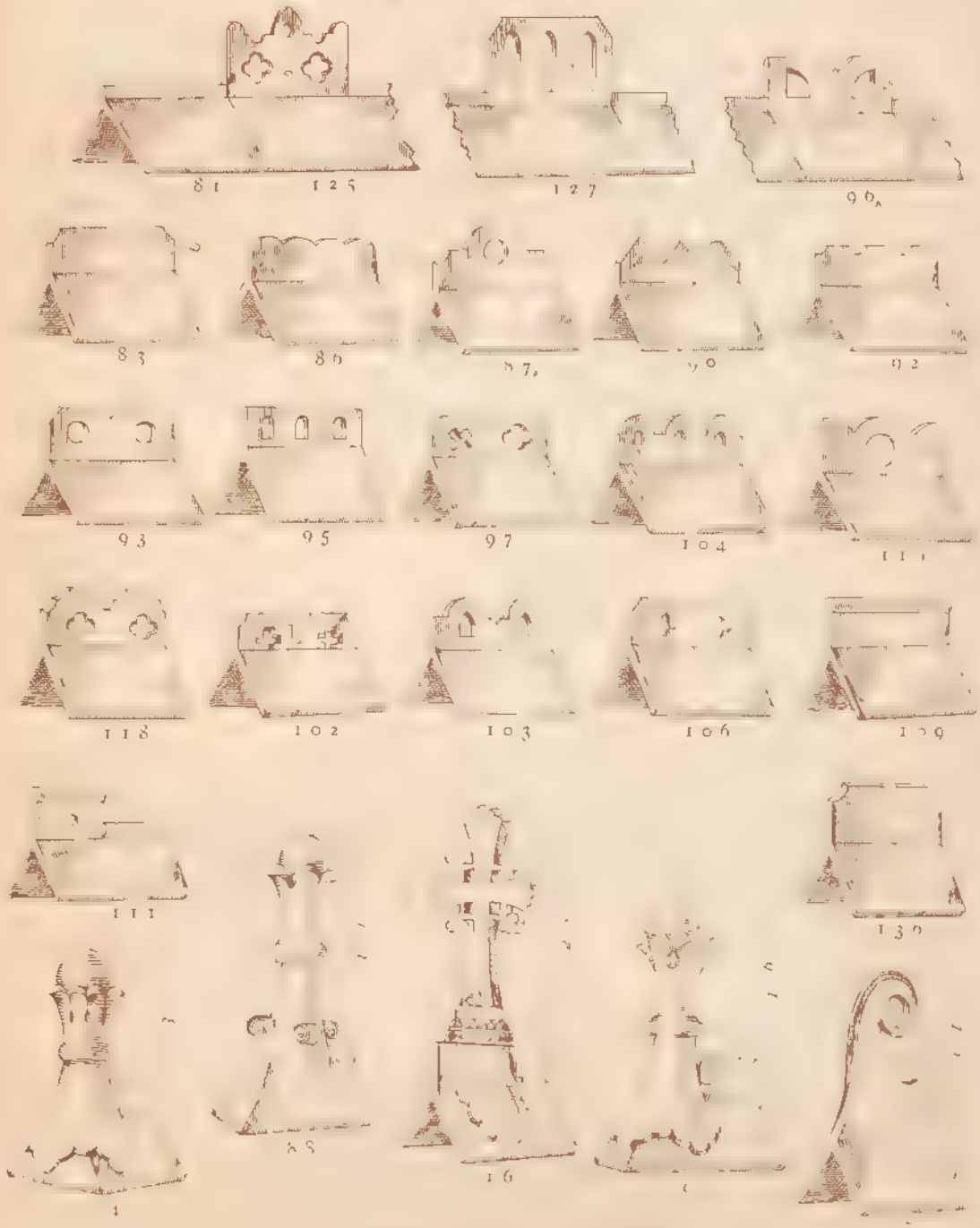
Being situated on the Trent and Mersey Canal, and having private Railway Siding into the Works from the North Stafford Main Line, the facilities for the prompt despatch of Goods are exceptionally good.

The designs following are a few taken from the Pattern Book, which will be sent, with complete Price List, on application.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Thomas Peake "The Tileries", Tunstall.

Ridge Tiles & Finials

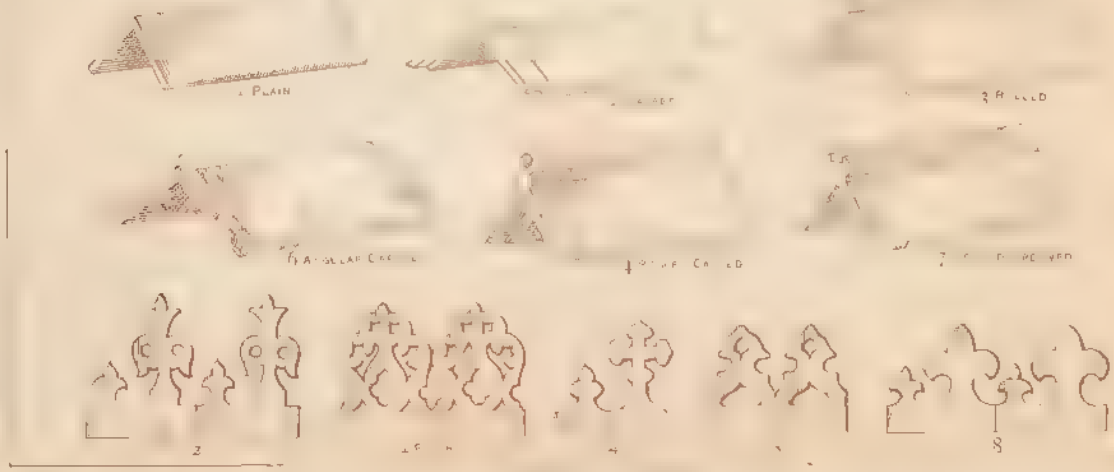


From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Thomas Peake "The Tileries", Turnstall.

Roofing Tiles Blue, Red & Brown or Broseley

Ridge Tiles Blue, Red & Brown or Broseley

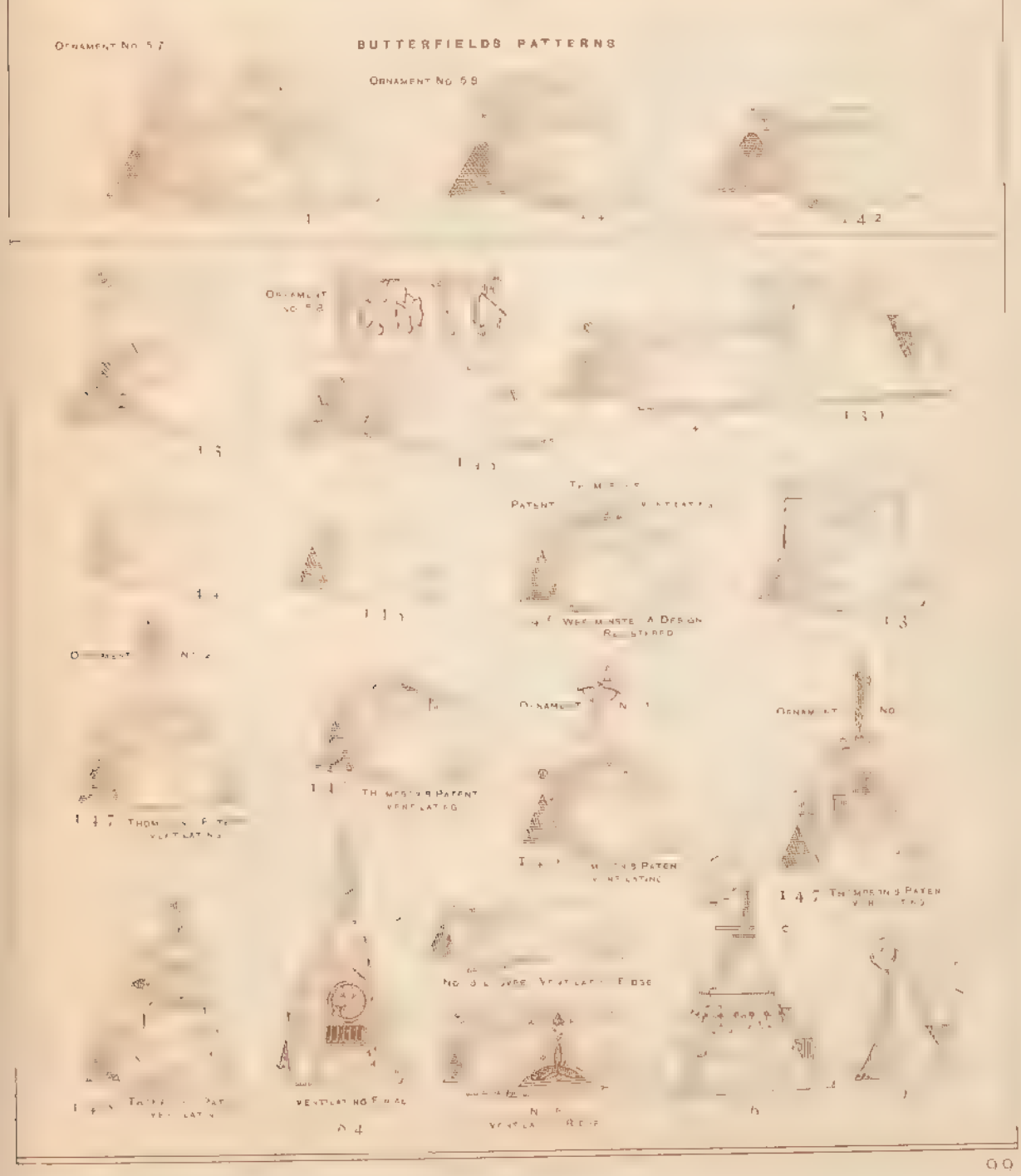


From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Thomas Peake "The Tileries", Turnstall.

Ridge Tiles & Ventilators

BUTTERFIELDS PATTERNS



From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Thomas Peake "The Tileries", Tunstall.

Finials

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WHEATLY & Co

TILE WORKS AND HEAD OFFICE
SPRINGFIELD TILERIES
NEWCASTLE
STAFFORDSHIRE

COLLIERY AND BRICK AND TILE WORKS
SANDBACH COLLIERY
COBRIDGE, NR BURSLEM
STAFFORDSHIRE

The Works are situated in North Staffordshire so justly celebrated for its fine marl deposits containing peroxide of iron which fluxing during the process of firing gives that impervious body, so well known as Staffordshire BLUE.

The RED goods are made from marls specially suited for the purpose and are of a similar close and dense body as the Blue and almost as impervious to wet.

The BUFF goods are of selected fire clay and carte coloured marls and are of greater durability than most of the so called BUFF goods offered to the public.

The paving tiles will be found of special merit being true in shape good in colour & of great durability

The roofing tiles can be supplied in BLUE RED or any shade of BROWN and will be found extremely durable, resisting all influence of weather and the chemical action of the atmosphere in large towns and manufacturing districts.

Architects special designs and orders will be attended to and carried out with reasonable despatch

ROOFING TILES

No 301.	35/-	PER 1000
302	35	"
303	35/	"
304	35	"
305	35/	"
306	35	"
310	32 6	"
311	65/-	"
312	3"	EACH
313	3½"	"
314	3"	"
315	3'	"
316	3.	"
317	50/-	PER 1000

RIDGE TILE

No 60.	6 WINGS.	3½" EACH
61	"	4 "
62	"	5½ "
63.	7" "	7 "
66	CHARGED AS 2 RIDGES	
67	"	

VENTILATING RIDGES

80	6"	EACH
81	7	"
82	7	"
83	1/6	"
84	2/-	"
85	2/6	"
86	3/6	"

FAST TOP RIDGES

No 100	4"	EACH
103	8	"
106	8	"
108	6	"
112	8	"
115	8	"
117	9	"
122	9	"
127	9	"
129	9	"

GARDEN TILES

604	75/-	PER 1000
608	85/-	" "
802	80/-	" "
810	85/-	" "
612	125	" "
617	79	" "

FINIALS

No 202	7/6	EACH	No 212	8/-	EACH	No 222	6/6 EACH
204	15/-	"	214	5/6	"	228	6/- "
205	9/-	"	223	5/6	"	234	2/9 "
			238	10/	"		

BEST BLUE BRICKS

No 330	57/6	1000	No 345	1½	EACH	COPING BKS		
331	57/6	"	346	2	"	No 473	4½"	EACH
332	1½"	EACH	347	2	"	478	5"	"
333	1½"	"	348	2½"	"	479	4½"	"
334	57/6	1000	349	2½"	"	491	5"	"
335	57/6	"	450	52/6	1000	WINDOW SILL BKS		
336	57/6	"	451	52/6	"	514	3"	EACH
337	3"	EACH	452	52/6	"	515	4"	"
338	1½	"	453	52/6	"	516	1½"	"
339	2"	"	454	70/-	"	517	2"	"
340	1½"	"	455	32/6	"	HERRING BKS		
341	1½"	"	456	35/-	"	518	3½"	EACH
342	1½"	"	457	37/-	"	523	5"	"
343	2"	"	458	35	"			
344	2"	"	459	35	"			

9x4½x3 BEST 52/6 1000 SECONDS 42/6 1000

FLOORING TILES

— PRESSED ORDINARY QUALITY —

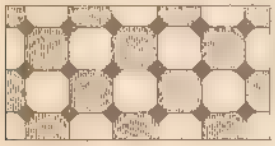
		RED & BLUE	BUFF	
9x4x⅞	QUARRIES	23/-	27/6	PER 1000
6x6x1	"	36/	45/-	" "
9x9x1¼	"	75/-	85/-	" "
9x9x1½	"	90/	110/-	" "
12x12x1½	"	250/	300/	" "

— PRESSED CROWN QUALITY —

4½x4½x⅞	QUARRIES	30/	35/	" "
6x6x1	"	45/	55/	" "
7½x7½x1¼	"	65/	75/	" "
9x9x1¼	"	90/	110/-	" "

PRESSED DOUBLE CROWN QUALITY

4x4x⅞	QUARRIES	40/	45/-	" "
6x6x1	"	60/	70/	" "
9x9x1½	"	120/	140/-	" "
6x6x1	" HEXAGON	70/	80/-	" "
6x6x1	" OCTAGON	90/	100/-	" "
6x6x1	" DOTS	90/	100/	" "
6x4x1	STRIPS	40/	45/	" "
8x3x1	"	35/	40/	" "
6x2x1	"	27/6	32/6	" "
6x1½x1	"	20/	25/	" "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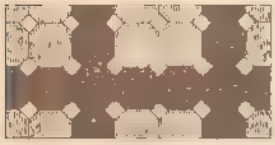
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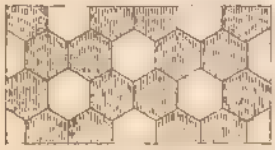
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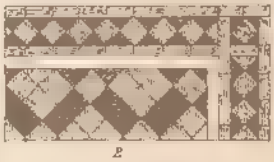
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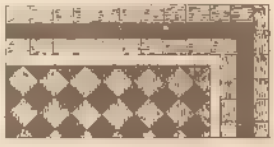
BORDER No 22


1

BORDER No 21

5

BORDER No 25

Wheatley

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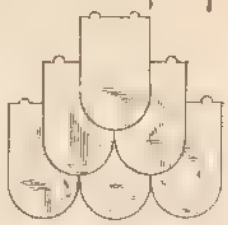
A.- BRICKS, TILES, & TERRA COTTA. WHEATLY & Co., SPRINGFIELD TILERIES, NEWCASTLE, STAFFS., SANDBACH COLLIERY, COBRIDGE, Nr BURSLEM.

ALL GOODS ARE MADE IN BLUE RED BROWN OR BUFF COLOURS

ROOFING TILES

301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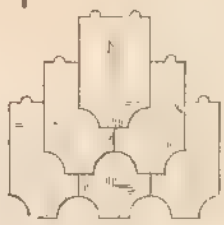
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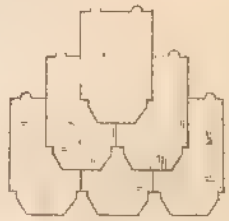
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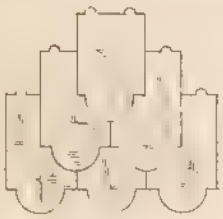

305

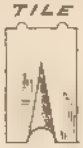
EAVE TILE

310

WALL TILE

317

VENTILATING TILE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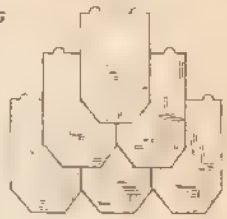
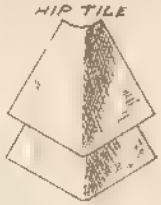

306

TILE AND HALF

311

HIP TILE


313

FINIALS

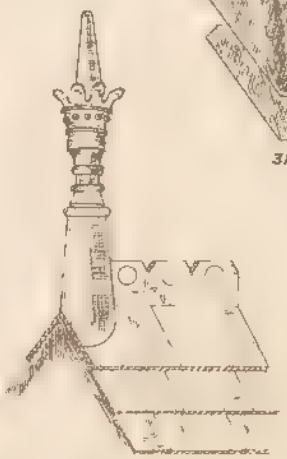
VALLEY TILE

312

GABLE TILE

202

224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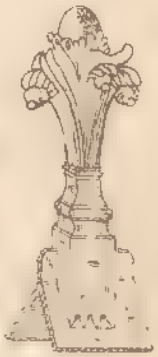
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205

223

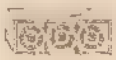
214

234

238

AIR BRICKS

89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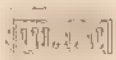
88

91

SCALE 3/4 INCH = ONE FOOT

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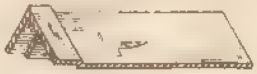
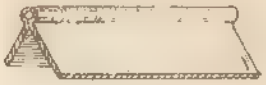
A.- BRICKS, TILES, & TERRA COTTA. WHEATLY & Co, SPRINGFIELD TILERIES, NEWCASTLE, STAFFS., SANDBACH COLLIERY, COBRIDGE, Nr. BURSLEM.

ALL GOODS ARE MADE IN BLUE RED BROWN OR BUFF COLOURS

RIDGE TILES

PLAIN RIDGE
60


CAPPED RIDGE
61

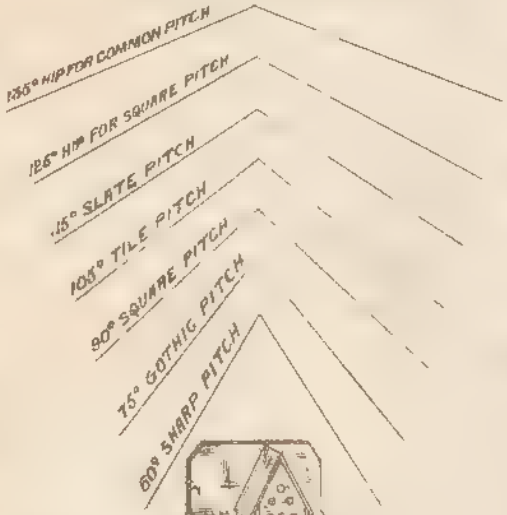

ROLLED RIDGE
62

ROLLED CAPPED RIDGE
63

QUOIN FOR TOP OF HIP
66

QUOIN FOR BOTTOM OF HIP
67

DIAGRAM OF PITCH OF ROOFS.



80

81

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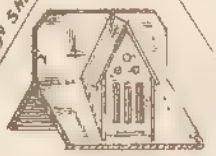
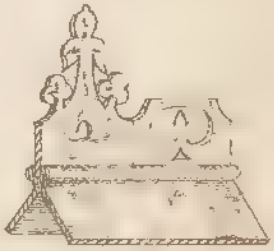

86

2

8


19 17

FAST TOP RIDGES

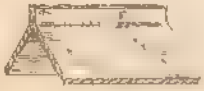
100

103

106

108

112


115

117

122

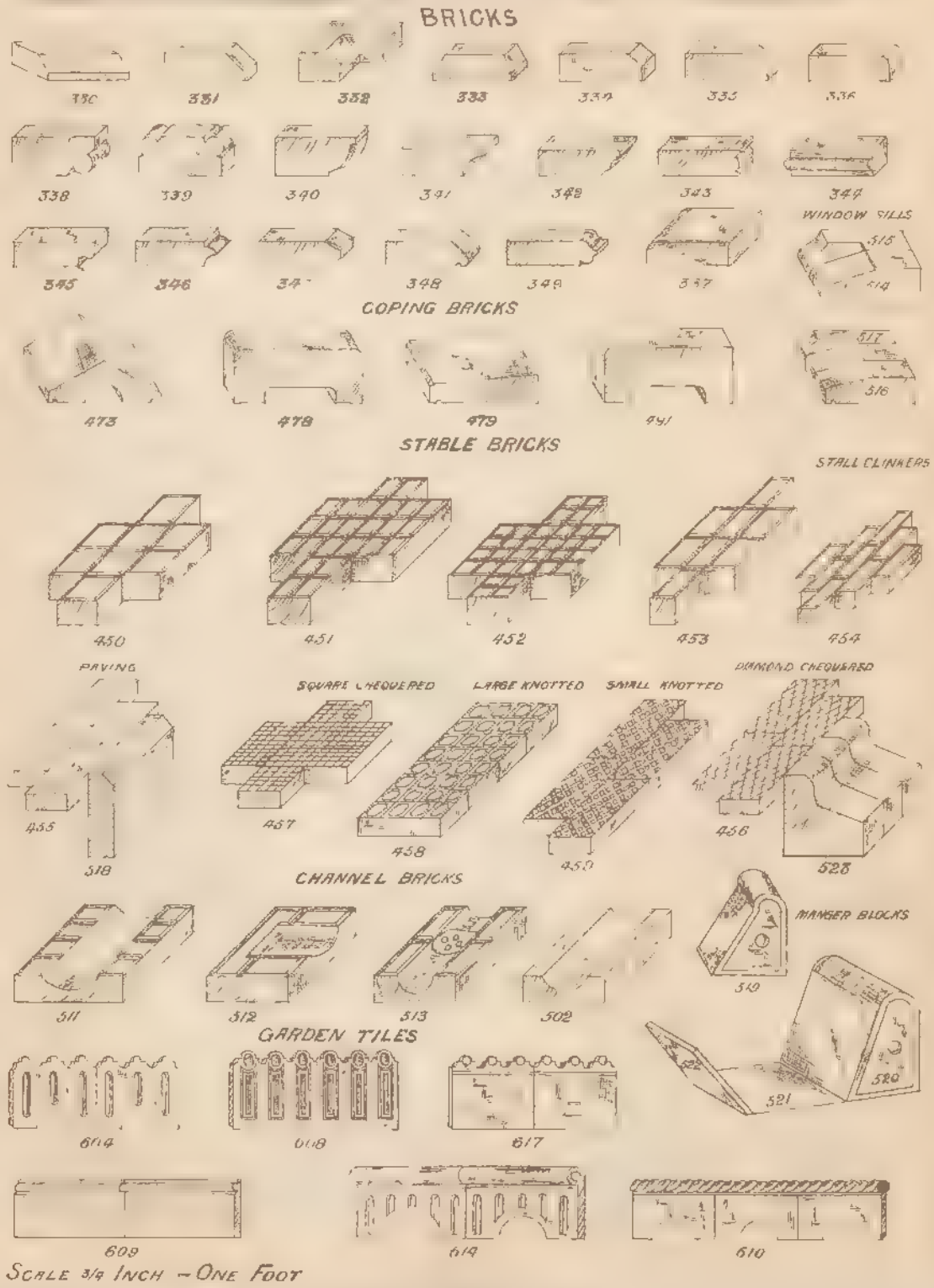
127

129

SCALE 3/4 INCH = ONE FOOT.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

ALL GOODS ARE MADE IN BLUE RED BROWN OR BUFF COLOURS



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GEORGE WOOLLISCROFT & SON.

POSTAL ADDRESS

HANLEY, STAFFORDSHIRE.

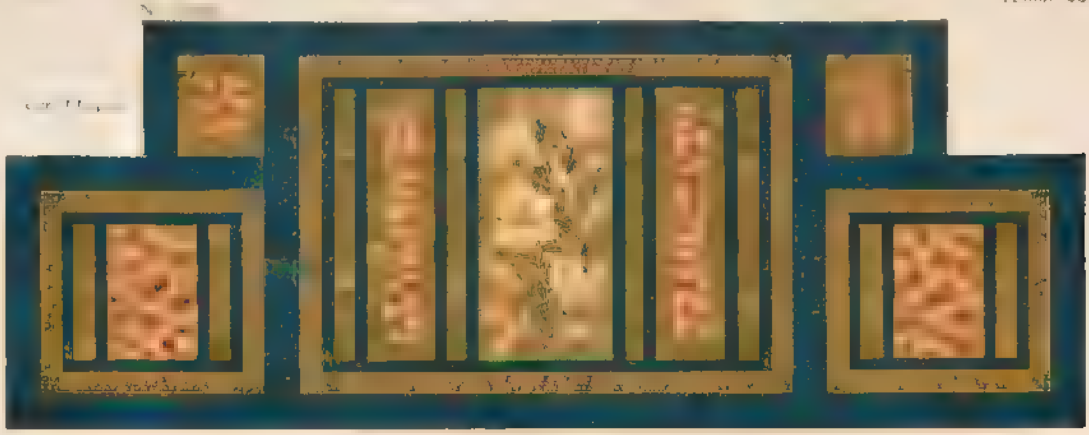
TELEGRAMS WOOLLISCROFT HANLEY

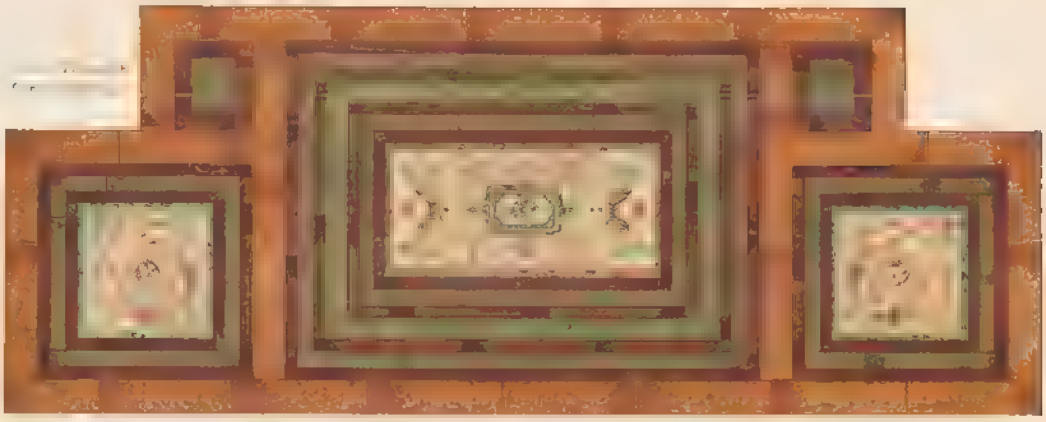
HEARTH TILES.

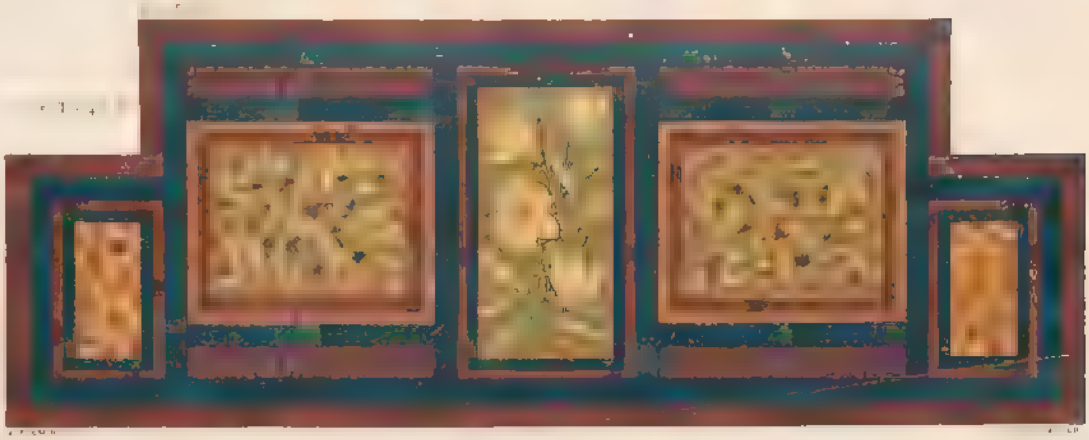
MANUFACTURERS

Of all kinds of

TERRA COTTA







SCALE 2 INCHES TO A FOOT

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GEORGE WOOLLISCROFT & SON.

POSTAL ADDRESS.

HANLEY, ENGLAND.

TELEGRAMS. "WOOLLISCROFT, HANLEY"

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52, Finsbury Pavement, LONDON, E.C.

MANUFACTURERS OF

ALL DESCRIPTIONS OF

Blue & Red PAVINGS for STREET FOOT-PATHS.

Used by the Borough Corporations of HANLEY and many other Towns.

STABLE PAVINGS. Blue & Red BUILDING & FACING BRICKS.

Red, Blue & Buff, STAFFORDSHIRE QUARRIES.

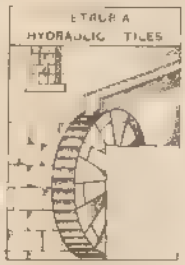
Red, Blue, Broseley, Plain & Ornamental ROOFING TILES.

Made by our Patent Process, and unequalled by any others in density and hardness.

Architects, Proprietors and Builders are invited to apply for Samples.

Also Ornamental RIDGE, of various patterns HIP, VALLEY & GARDEN EDGE TILES.

"ETRURIA HYDRAULIC" TILES,



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for ROOFS, FLOORS and WALLS,

Suitable for Church Aisles, Corridors to Schools and Public Buildings, Verandahs, Green-houses, Servants' Halls, Kitchens, Farm-houses, &c., &c.

Largely specified by HOME & COLONIAL ARCHITECTS.

TESSELATED and ENCAUSTIC TILES,

For Chancels, Entrance Halls, Conservatories, &c., &c.

GLAZED, ENAMELLED, EMBOSSED, PRINTED & ART TILES,

For Hearths, Fire Places and Wall Linings.

MOULDED SKIRTING (Suitable with or without a Dado above) & CAPPING TILES.

TERRA COTTA for any kind of ORNAMENTATION.

Supplied to Architects' own Designs.

AGENCIES: Sole Agents for

GRONDONA & Co., Limited, 28, King Street, MELBOURNE — AUSTRALASIAN COLONIES.

HUINCK & IMHOFE, 2, Groote Draaisteeg, ROTTERDAM — HOLLAND & DUTCH COLONIES

C. J. CEDERSTRAND, Norra Blasieholmshamnen, 5A, STOCKHOLM. — SWEDEN.

J. HALES, CAIRD & Co., 5 & 7, Fenchurch Street, LONDON, E.C. — WEST INDIES

B. & S. H. THOMPSON & Co., MONTREAL. — CANADA.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

GEORGE WOOLLISCROFT & SON,

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MANUFACTURERS OF ALL KINDS OF

RED AND BLUE FACING AND PAVING BRICKS,

Ridge Roofing and Garden Edge Tiles,

HIP & VALLEY TILES, STAFFORDSHIRE QUARRIES, WALL & PLATFORM COPINGS, &c.

LEADING SPECIALITY—

"ETRURIA-HYDRAULIC" ❋ TILES.

These Tiles are made by powerful machinery, and warranted sound, straight, and fast coloured.

ROOFING TILES of this quality are superior to any others in the market. Reference if needed to many Public Buildings in England and Ireland.

FLOOR TILES. The increasing sale in this branch is abundant proof of their popularity, and that they supply the long-felt want for a superior, though cheap Tile for Church Aisles, Schools, Verandahs, Greenhouses, Servants' Halls, Kitchens, &c., &c.

GLAZED WALL TILES. These are specially suitable for Schools, Public Buildings, Railway Stations, Stables, &c., where a coloured Tile is desirable in preference to White Glazed.

GLAZED SKIRTING TILES are produced at a very reasonable price, and already largely used instead of wood, which constantly wants painting, and is always liable to rot and decay.

In order to meet the extensive demands of Home, Colonial, and Foreign Buyers, we have lately made considerable additions to our Machinery, which, while increasing the production, will at the same time improve the texture.

N.B.—Specified by all the Leading Architects.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

GEORGE WOOLLISCROFT & SON,

HANLEY, ENGLAND.

WHILE recommending our **"ETRURIA-HYDRAULIC" TILES** *for all cheap floors, we do not wish to detract from the inestimable value of*

ENCAUSTIC TILES,

For Chancels, Entrance Halls, Vestibules, Conservatories, &c.;

where beauty of design and richness of colouring is desirable.

These we can supply in great variety, and at most reasonable prices, consistent with first-class quality.

GLAZED, DECORATED, ENAMELLED AND EMBOSSED TILES,

FOR HEARTHS, WALLS, DADOS, &c.

As a Specimen of our productions in this class we refer our readers to the HEARTH TILE PATTERN SHEET, published with this issue. *See Plate, No. 28.*

ESTIMATES FOR GOODS ONLY OR SAME FIXED COMPLETE FURNISHED FREE OF COST, AND ONLY EXPERIENCED WORKMEN SENT OUT.

WORKS: HANLEY, ETRURIA, CHESTERTON, **NORTH STAFFORDSHIRE.**

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LEEDS: 89, WOODHOUSE LANE.

Head Office; Postal and Telegraphic Address: "HANLEY, STAFFS."

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

JAS. STIFF & SONS,

Telegraphic Address "STIFF LONDON"

LAMBETH, LONDON, S.E.,

Telephone, No 4627

MANUFACTURERS OF

ARCHITECTURAL TERRA-COTTA,

Which obtained ONLY GOLD MEDAL, CALCUTTA EXHIBITION, 1884,

And which is ABSOLUTELY IMPERISHABLE as proved by work erected 20 years ago.

SAMPLE OF QUALITY SENT FREE TO ARCHITECTS ON APPLICATION.

Six Government Buildings and Three Native Palaces in India completely Furnished.

Most Recent London Examples of its use :—

Piccadilly Mansions (next Café Monico), and L. & W. Bank, Oxford St.

COMPLETE DRAWINGS FOR FIXING SUPPLIED FOR EACH JOB.

Garden Vases, Fountains, Statuary, Lions, &c.

VENTILATING PANELS & AIR BRICKS, All Sizes and Patterns in Stock.

ALSO MANUFACTURERS OF

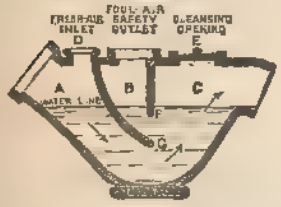
SANITARY STONEWARE.

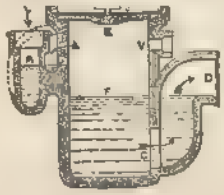
Including the most Highly Vitrified and Non Absorbent Glazed Stoneware DRAIN PIPES, &c.

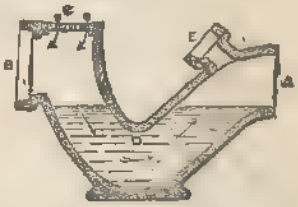
A Special Quality of "Slipped" Pipes with Hard, Thick Brown Enamel inside and Outside, for Drains under Houses where necessary.

BENDS, JUNCTIONS, SYPHONS, GULLEYS, SEWER-AIR and WASTE-WATER TRAPS.

STIFF'S INTERCEPTOR TRAP. "KENSINGTON" DISCONNECTER GREASE AND SINK TRAP. WEAVER'S SEWER-AIR TRAP.







Improved TROUGH CLOSETS, CROWTER'S LAVATORY RANGES, LATRINES & URINALS,

Weaver's Ventilating Sewer-Air Trap. Stiff's "Interceptor" Sewer-Air Trap, The "Weatherly" Sink and Waste-Water Trap The "Kensington" Grease Trap, The "Langford" Fat Trap, Stiff's Open Drain Flushing Conduit for Man Holes The "Bavin" Dip Trap, Yard Gulleys, Deep Street Gulleys, Invert Blocks for Bottoms of Brick Sewers. Channel and Opercular Pipes Stiff's Improved Access Drain Pipes, Stiff's Chair and Saddle Drain Pipes, Improved Closet Pans and Traps, Stiff's Buff Glazed Stoneware Sinks, Vitrified Damp proof Course, Paving Tiles, Air Bricks, Lovegrove's Drain Inspection Shafts and Chambered Pipes.

STIFF & SONS, LONDON POTTERY, LAMBETH.

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Telegraphic Address: "WYNDHAM, RUABON"

HENRY WYNDHAM,

(SUCCESSOR TO THOS. H. SEACOMBE)

"THE DELPH" BRICK & FIRE-CLAY WORKS,

RUABON, NORTH WALES,

MANUFACTURER OF

GLAZED STONEWARE SEWERAGE PIPES,

BROWN SALT-GLAZED FACING BRICKS,

BUFF AND WHITE MACHINE-PRESSED BRICKS,

COMMON BRICKS,

FIRE BRICKS, FIRE TILES, AND FIRE CLAY GOODS OF ALL DESCRIPTIONS,

Butt Jointed Pipes, Flue Pipes, Agricultural Drain Pipes,

TERRA COTTA CHIMNEY TOPS, &c., &c., &c.

COOPER & SON,

TRENT VALE TILERIES, STOKE-ON-TRENT.

Manufacturers of

RED, BLUE, AND BUFF FLOORING TILES,

RED, BLUE, AND BROWN ROOFING & RIDGE TILES, &c.

BLUE PAVING. STABLE AND FRONT BRICKS.

NOTES REFERRING TO GOODS IN THIS SECTION.

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THE

COMPLETE CATALOGUE.

Section B.

CARPENTRY AND JOINERY.

FIRMS REPRESENTED IN THIS SECTION.

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NER, J. F.	114
EGORY, T. & CO.	115
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WESTMINSTER PATENT FLOORING CO	123 123A 123B, 124
WOOD BLOCK FLOORING CO. ..	120, 121

NOTES REFERRING TO GOODS IN THIS SECTION.

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B—CARPENTRY AND JOINERY.

NOTES REFERRING TO GOODS IN THIS SECTION

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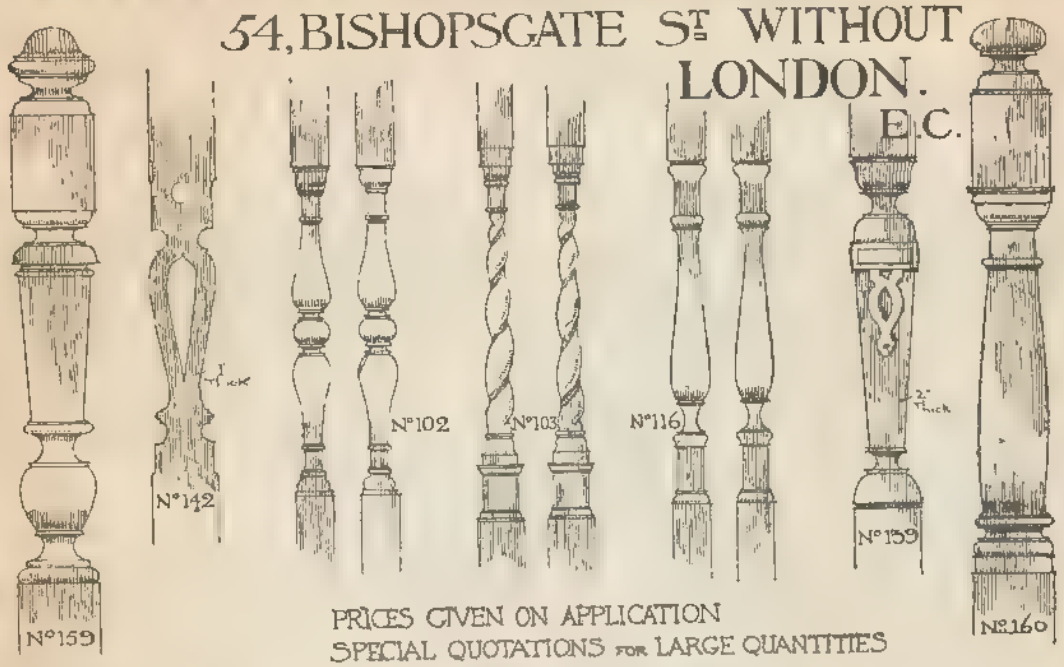
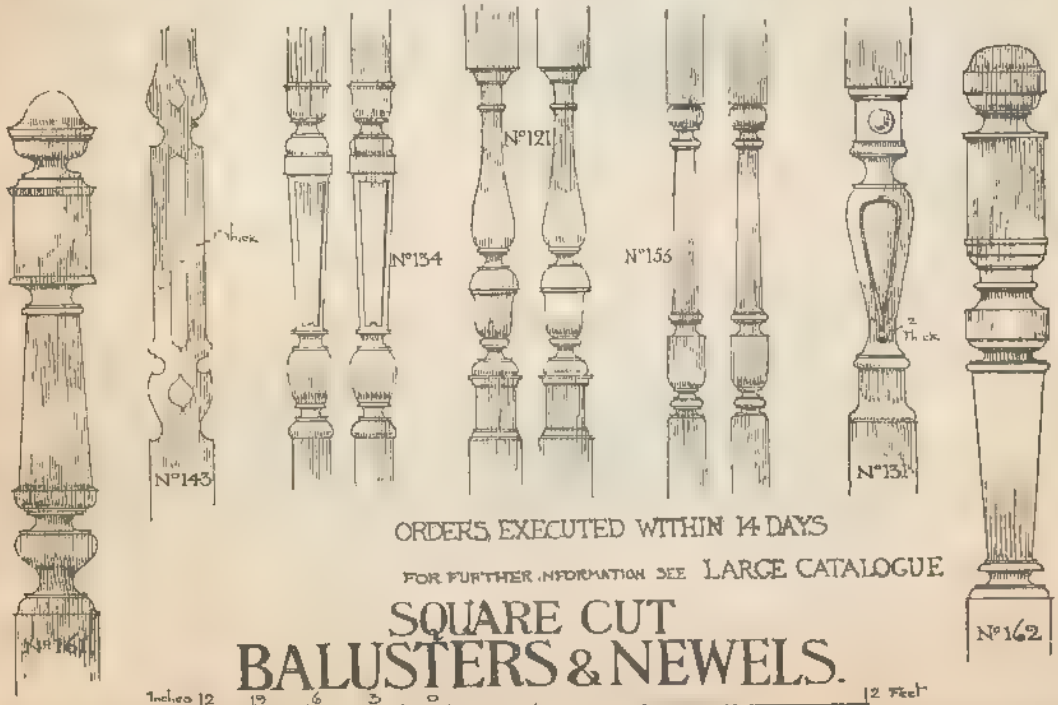
CARTER & AYNSLEY

54, BISHOPSGATE St WITHOUT
LONDON.
E.C.



PRICES GIVEN ON APPLICATION
SPECIAL QUOTATIONS FOR LARGE QUANTITIES



ORDERS EXECUTED WITHIN 14 DAYS

FOR FURTHER INFORMATION SEE LARGE CATALOGUE

SQUARE CUT BALUSTERS & NEWELS.

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Telephone, 4,761.] [Telegrams: "Dowelled, London."

THE ACME WOOD FLOORING COMPANY, Ld.,

Sole Proprietors and Manufacturers of the

"IMMOVABLE ACME"

WOOD BLOCK FLOORING (W. DUFFY'S PATENT),

Is warm, dry, and noiseless; of artistic appearance, and guaranteed reliable in every respect.

☞ *For full particulars and Prices see Page* 113.

CAN ALSO BE LAID END GRAIN UP ON THE SAME SYSTEM.

CAN ALSO BE LAID END GRAIN UP ON THE SAME SYSTEM.

which the superposed flooring is secured. Side View, showing method of Dowelling

End Section of W. Duffy's Patent "Immovable Acme" system of Wood Block Flooring.

And Certificate of the Sanitary Institute of Great Britain.

International Exhibition, Paris.
Inventions " " cts "
nternational Exhibition, Glasgow.

Building Trades' Exhibition, Sheffield.
International " Liverpool.
" " Edinburgh.
Royal Polytechnic Falmouth.
Architectural & Building " London.

Health Exhibition, York.
Sanitary Institute of Great Britain
International Exhibition, Saltaire.
International Exhibition, Tyne.

CLASSHOUSE ST., & VAUXHALL WALK, LAMBETH, S.E.

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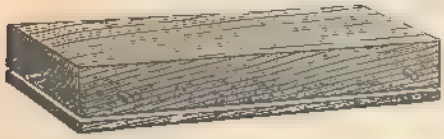
TELEPHONE 4761] THE Telegrams—"DOWELLED, LONDON."

ACME WOOD FLOORING COMPANY

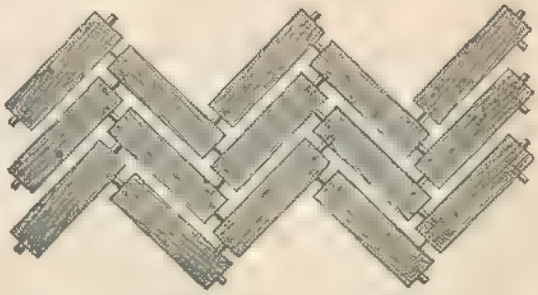
LIMITED.

MANUFACTURERS OF W. DUFFY'S PATENT

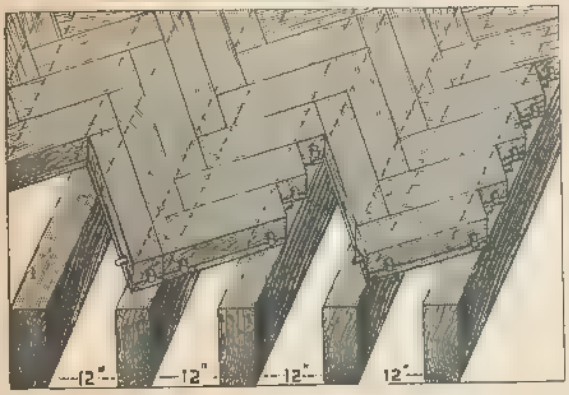
"IMMOVABLE ACME" WOOD BLOCK FLOORING.



Finished Block for Joists.



Surface View with open joints showing the method of Dowelling



View describing the system laid direct on to joists, making a splendid and reliable floor.

The system can be laid on rough boarding or on worn out boarded flooring.

For full particulars and Prices see Page 113.

The wear sustained in a Public Establishment like the **Gaiety Buffet, Strand,** where it is laid, is the very highest recommendation; here it is truly tested in every possible way by heat, wet, heavy and constant traffic, yet its appearance to-day is quite as good as the day it was laid, and we respectfully beg Architects' special attention to this Floor.

The preparation of the wood is a most careful operation, both as regards seasoning and manufacture. By the well-explained system of dowelling, each block is fastened to the neighbouring blocks, and by the perfect security to foundation, looseness is an impossibility.

SPECIALLY ADAPTED FOR

Hospitals	Warehouses	Railway Stations	Kitchens
Banks	Colleges	Residences	Dancing Academies
Hotels	Schools	Basements	Restaurants
Stores	Churches	Bath Rooms	Billiard Rooms, &c., &c.

Estimates, &c., on Application to the Sole Proprietors and Manufacturers—

THE ACME WOOD FLOORING COMPANY, LTD.

CHIEF OFFICES & WORKS—

GLASSHOUSE STREET and VAUXHALL WALK, LAMBETH, S.E.

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W. DUFFY'S

PATENT IMPROVED AND PERFECTLY

"IMMOVABLE ACME"

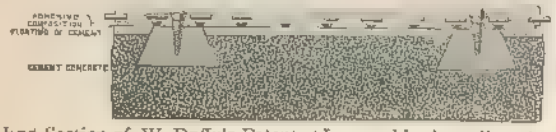
SYSTEM OF

WOOD BLOCK FLOORING

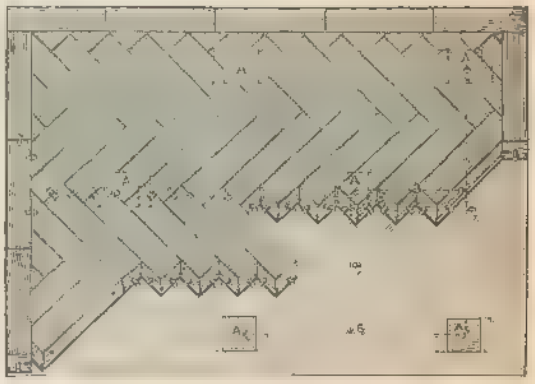
For full particulars and Prices see Page 113.

Which has been approved by leading Architects at home and abroad, and universally adopted, and received the Highest Award for Flooring at all the most important Exhibitions.

7 GOLD MEDALS,
3 SILVER MEDALS,
2 BRONZE MEDALS,
AND
Certificate of the Sanitary Institute of Great Britain.



End Section of W Duffy's Patent 'Immovable Acme" system of Wood Block Flooring



Surface View, the position of bonding blocks (marked A) to which the superposed flooring is secured
Side View, showing method of Dowelling.

For full Particulars and Prices (see Page 113) and on application to

THE ACME WOOD FLOORING COMPANY,

LIMITED.

CHIEF OFFICES & WORKS—

GLASSHOUSE ST. & VAUXHALL WALK, LAMBETH, S.E.

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THE ACME WOOD FLOORING CO., LTD.,

Telephone 4761. Manufacturers of Telegrams—"DOWELLED, LONDON."

The "Immovable Acme" Wood Block Flooring.

INDESTRUCTIBLE, PERFECTLY SOLID, NOISELESS, & WARM.

The most Efficient and Economical Floor in the Market.

Possessing complete Sanitary Advantages of Imperviousness to Vermin, Dirt, Damp, Draughts, &c.

NETT PRICE LIST

FOR

W. DUFFY'S Gold Medal "Immovable Acme" Wood Block Flooring.

The Flooring is prepared from First-class Timber, and thoroughly Seasoned by a special process, in two qualities, "C" and "D," as follows:—

"C."—Prepared from best Yellow Deal, Pitch Pine, Oak, &c., thoroughly Seasoned, planed four sides with longitudinal V grooves, as this to receive adhesive and preservative composition, forming an additional bonding key

"D."—Prepared and laid as "C," with blocks specially selected, free of all defects

PRICES PER YARD SUPERFICIAL.

	1 in.*		1½ in.*		1½ in.*		2 in.*	
	C Quality	D Quality.	C Quality	D Quality	C Quality	D Quality	C Quality	D Quality
Yellow Deal...	5 3	5 9	6 0	6 6	6 6	7 0	7 6	8 0
P. Pine .	7 0	7 6	8 0	8 6	8 6	9 0	9 0	10 0
Oak .	10 6	11 6	11 0	12 6	12 6	13 0	16 0	17 9

*This is the *thickness* of the Blocks before they are prepared, finishing about ½ in. less than named in each case.

	Deal.	P. Pine.	Oak
Straight cutting to waste, all sizes and qualities, per foot run	3d.	4d.	9d.
Circular " " " "	6d.	8d.	1s. 6d.

BONDING BLOCKS, for inserting in the CONCRETE foundation, when being laid ARE SUPPLIED FREE OF CHARGE and have to be put in by, and AT THE EXPENSE OF THE BUILDER. The TOP OF BONDING BLOCKS when inserted, must be on A LEVEL WITH THE CEMENT FLOATING. These blocks act well for screeding levels

These Prices are for laying and cleaning off the work complete, exclusive of concrete, which must be floated to a PERFECT LEVEL in PORTLAND CEMENT and allowed sufficient time to become QUITE HARD and DRY before our flooring can be laid

TERMS.—Payment as the work proceeds.

The prices named are for London, and a radius of 10 miles from Charing Cross. For places beyond, return railway ares for two men, time travelling, and estimated carriage of materials must be added

Special quotations for all kinds of HARDWOOD on application, stating quantity required, with rough tracing, if possible.

Sole Proprietors and Manufacturers—

THE ACME WOOD FLOORING Co., LTD.

Chief Offices & Works—GLASSHOUSE STREET & VAUXHALL WALK, LAMBETH, S.E.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

TEN GOLD MEDALS AND HIGHEST AWARDS.

PARQUET AND HARD WOOD JOINERY,

MANUFACTURED BY

Telegraphic Address: "MOSAICIST, LONDON"

JOS. F. EBNER,

Telegraphic Address: "MOSAICIST, LONDON"

150, OLD STREET, ST. LUKE'S, LONDON, E.C.

1 INCH AND ¾ INCH

Solid Parquet

ALWAYS IN STOCK

DESIGNS and ESTIMATES ON APPLICATION.

Parquet de Luxe

MADE TO ORDER

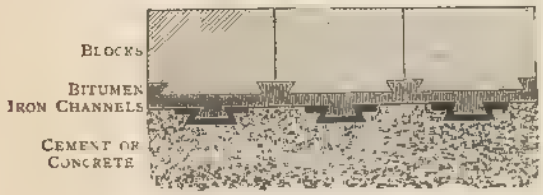
DESIGNS and ESTIMATES ON APPLICATION.

PARQUET ON PATENT HYDROFUGE SYSTEM FOR LAYING ON CONCRETE ALWAYS IN STOCK. FOR DESCRIPTION SEE BELOW.

TEN GOLD MEDALS AND HIGHEST AWARDS.

EBNER'S PATENT HYDROFUGE SYSTEM FOR FLOORS.

FIREPROOF, DAMP-PROOF, NOISELESS. FREE FROM DRAUGHT, AND PROOF AGAINST RAVAGES OF DRY ROT, VERMIN, OR DISEASE GERMS



By this System a PERFECT and DIRECT KEY is obtained between the WOOD BLOCKS and the CEMENT FOUNDATION, by means of a hard setting BITUMEN, which FORMS A DAMP COURSE. The Bitumen is applied hot in a fluid state, and sets hard.

The metal Channels shown in black are pressed into the cement floating whilst plastic. The KEY FORMS ITSELF MECHANICALLY, and therefore can neither be FORGOTTEN OR SCAMPED. UPON COMPARISON this System will be found to be the ONLY ONE giving an ABSOLUTE KEY into foundation; which is vital.

REFERENCES TO WORK EXECUTED.

NATIONAL LIBERAL CLUB.
JUNIOR CARLTON CLUB.
ROYAL INFIRMARY, LIVERPOOL.
SUNDERLAND INFIRMARY.
BANK OF ENGLAND (FLEET STREET).
UNION BANK OF LONDON
OWEN'S COLLEGE, MANCHESTER
FLETE, IVYBRIDGE, MILDMAY, ESQ.

PRUDENTIAL ASSURANCE HEAD OFFICES.
SHAKESPEARE MEMORIAL, STRATFORD-ON-AVON
MERCHANT TAYLORS HALL.
GAS LIGHT & COKE COMPANY, WESTMINSTER
LONDON & SOUTH WESTERN BANK.
BRIERLEY HILL BANK.
HOASLEY TOWERS FOR EARL OF LOVELACE
LONGRIDGE TOWERS FOR H. E. H. JERNINGHAM, ESQ., M.P.

For Ebner's Mosaic Floors see Page 324.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THOS. GREGORY & CO.'S

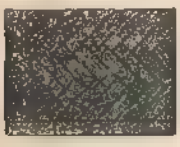
WOOD BLOCK FLOORING,

FOR CHURCHES, SCHOOLS, OFFICES, BASEMENTS, &c.

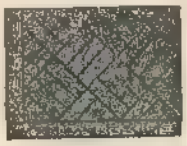
MESSRS. GREGORY & Co. beg to thank their numerous clients and patrons for their continued support during the 25 years they have manufactured Wood Block Flooring. As the oldest established manufacturers in the trade they endeavour to keep pace with the numerous inventions and improvements that have, at various times, been introduced, and with this end in view they have made arrangements with Mr. W. T Creed to work his patent for keying and bonding the blocks together, and thus forming a solid and thoroughly bonded floor. This invention can be worked in Hard Wood as well as Deal, Pitch Pine, &c, at a small additional cost to ordinary wood blocks Messrs. Gregory and Co. still continue to manufacture all kinds of Wood Block Paving at prices to suit all classes of work. Their Burnetized Blocks. will stand more wear and tear than any other deal floor.

PATTERNS.

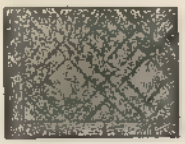
No. 1.
Common Herring Bone.



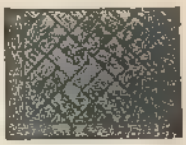
No 2
Common Interlacing.



No. 3.
Interlacing with Squares.



No. 4.
Small Interlacing



WOOD BLOCK FLOORING was introduced by W. WHITE, Esq., F S A., 30 years ago; we still hold the license for the manufacturing of his system It is not liable to the ravages of dry rot or vermin; it is dry and warm to the feet, solid and firm to the tread, leaves no space beneath to harbour mice or beetles, is free from the noise and echo of a common boarded floor so objectionable in Schools, Churches, or other public Buildings, durable in wear, easily replaced when worn out, and altogether superior to the ordinary boards and joists for general ground floor purposes. As a covering for fire proof floors, for offices, &c, it is the best and most economical yet introduced to the public.

It has been used for Floors in York Minster, St. Paul's Cathedral, Westminster Abbey, and Buildings connected with the Public Schools of Winchester, Eton, Harrow, Rugby, and Marlboro'.

WE PREPARE THREE QUALITIES OF DEAL BLOCKS.

A out of BEST DEAL, Burnetized, Cut and Grooved Joints and Traversed Surface.
B „ SECOND do. do. Square Joints, unequalities planed off.
C „ THIRD do. do. Planed Surface only.

Please note alteration in Classes of Qualities.

PRICES ON APPLICATION.

In consequence of the fluctuations in the Timber Market, the Prices vary so much that it is advisable to apply for special quotations.

Our attention has been called to the fact that imitators of our Paving are sending out goods entirely "unprepared" Please note our Goods are properly *Burnetized and Seasoned*

NOTE—For Churches, Residences, Girls' or Infant Schools, blocks 1½" thick are sufficient For Boys Schools 1¾" and 2" For Factories thicker blocks according to amount of wear. Special Estimates will be given for other patterns, for coloured or hard woods, and for laying the Flooring in Town or Country. Directions for laying are given when blocks are supplied. Any further particulars may be had on application to the Manufacturers.

THOMAS GREGORY & CO.,

WOOD PAVING AND STEAM JOINERY WORKS,

STATION WORKS, CLAPHAM JUNCTION, LONDON, S.W.

AGENTS FOR LIVERPOOL, MANCHESTER, AND NEIGHBOURHOOD:
J. D. KELLY & Co., 4, Sweeting Street, Dale Street, Liverpool.

SPECIAL NOTICE.—Some persons having imitated this Paving the Public are informed that no improvement can be claimed that cannot be carried out by the original Manufacturers.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

58 & 60 WILSON ST FINSBURY E. C

ORANGE ST GRAVEL LANE SOUTHWARK S E

Telephone No. 498. Telegraphic Address, "FANDEDORS," London

J. F. & G. HARRIS,

MAHOGANY AND GENERAL TIMBER MERCHANTS

AND MOULDING MANUFACTURERS.

OFFICES AND MILLS.

58 & 60, WILSON STREET, FINSBURY, E.C
ORANGE STREET, GRAVEL LANE, SOUTHWARK, S.E.
VICTORIA WHARF, TWIG FOLLY BRIDGE, BETHNAL GREEN, E. } LONDON.

MANUFACTURERS OF THE REGISTERED FANCY WOOD DECORATIONS.

MOULDINGS MADE TO ANY DESIGN AND IN ANY WOOD.

HIGHEST AWARDS—

SILVER MEDAL, INTERNATIONAL INVENTIONS EXHIBITION, LONDON, 1885.

SILVER MEDAL, SOCIETY OF ARCHITECTS, LONDON, 1886.
FIRST CLASS CERTIFICATE LONDON, 1887.

BRONZE MEDAL SANITARY INSTITUTE OF GREAT BRITAIN. HEALTH EXHIBITION, YORK, 1886.

BRONZE MEDAL, FIRST ORDER OF MERIT. ADELAIDE, 1887.

CATALOGUES & PRICE LISTS forwarded on application.

DRY STOCK,

IN ALL THICKNESSES OF AMERICAN WALNUT, OAK, ASH, BIRCH WHITEWOOD, PINE, SPRUCE, PITCHPINE &c.

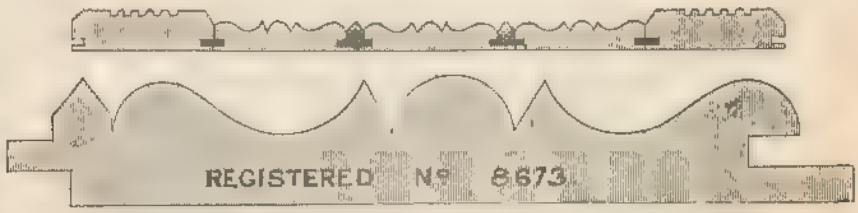
TEAK, WAINSCOT CEDAR, CUBA, HONDURAS AND TOBASCO MAHOGANY, &c.

YELLOW & WHITE PLANK, DEALS, AND BATTENS, CUT IN STOCK.

ALL WIDTHS AND THICKNESSES OF FLOORINGS AND MATCHLININGS, &c.

VENETIAN LATHS, &c.

SPECIAL QUOTATIONS ON RECEIPT OF QUANTITIES.



MAHOGANY AND HARDWOOD MOULDINGS IN STOCK.

COVERS AND CASINGS MADE TO ANY DESIGN.

J F & G HARRIS, MAHOGANY & GENERAL TIMBER MERCHANTS AND MOULDING MANUFACTURERS.

GROOVES MADE TO TAKE CABLES TO ANY SIZE

OFFICES & MILLS } LONDON

ELECTRIC LIGHT CASINGS IN STOCK.

Sawing Planing AND Moulding Mills

VICTORIA WHARF Twig Folly Bridge BETHNAL GREEN E

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HINDLEY & SONS,

Steam Factory, Erskine Road, N.W. 290-294, OXFORD STREET, LONDON. (Estd. 1817.)

MANUFACTURERS OF WOOD PANELLING (SOLID).

Pine Panelling, 1/5 *per foot Super.*
Oak (Wainscot) do. 2/3 *per foot Super.*

These Panellings are SOLID and not veneered in any way. Specimens showing construction in Show Rooms.

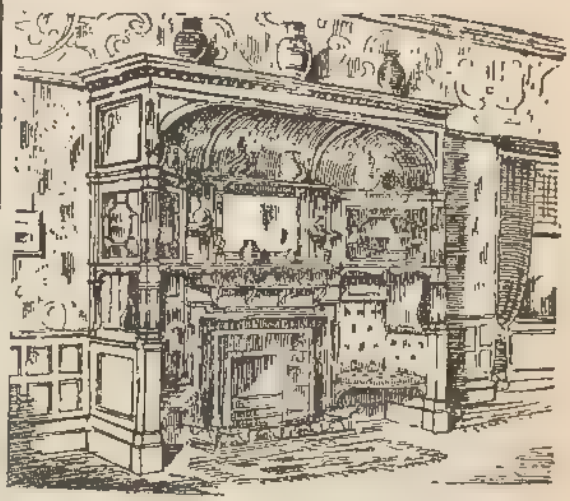
PARQUET FLOORING (BRITISH)

SOLID 1 inch WAINSCOT (Herring Bone). Laid & polished £7 5s. a Square.

SOLID 1 inch WAINSCOT Flooring Tongued, laid & polished, £6 13s. a Square, with wide border.

SOLID ¾ inch OAK PARQUET, Laid & polished £4 3s. 6d. a Square.

ASK FOR ESTIMATES.



INGLE NOOK Upholstered Complete (Grate Excluded), £45.

OAK, fumigated & polished, 2/3 per Square Foot.
PINE, primed for painting 1/6 " " "

WOOD MANTELS,

IN ALL WOODS, from 24/- to £100.

Upwards of 100 designs to select from in STOCK.

GRATES, TILE HEARTHS, FENDERS.

INTERIOR JOINERY.

DOORS & OVERDOORS, from 15/-
INGLE NOOKS.
PANELLED CEILINGS.
DESIGNS PREPARED.

Send for new illustrated Price List of Parquet Flooring, Wood Mantels and Panelling, Grates, &c. Estimates Free.

Painting, Decoration, Wall Paper, etc.

HINDLEY & SONS,

290 to 294, OXFORD STREET, W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

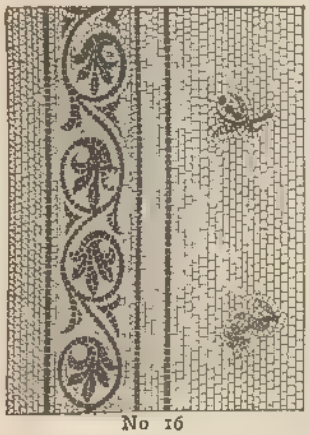
TURPIN'S

PARQUET FLOOR, JOINERY, & WOOD CARVING Co., Ld.

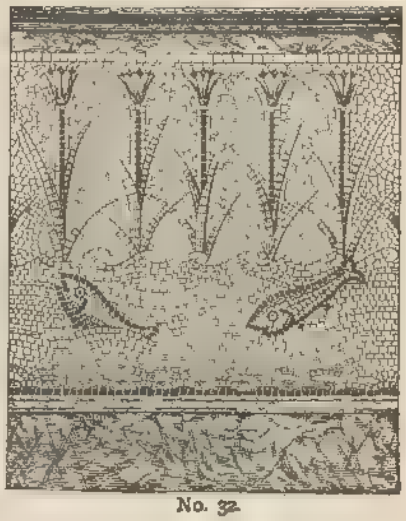
OFFICES AND SHOWROOMS,

22, QUEEN'S ROAD, BAYSWATER, LONDON, W.

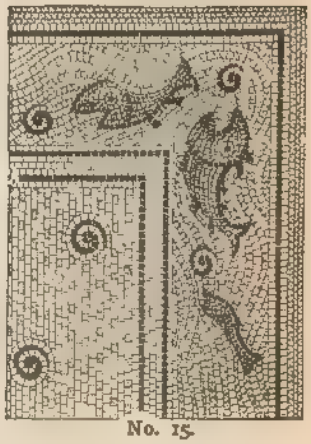
ESTABLISHED 25 YEARS.



No 16



No. 32



No. 15

MARBLE & CERAMIC MOSAICS FOR FLOORS.

Enamel and Marble Mosaics for Mural Decorations.

SPECIAL SHEET OF DESIGNS SHOWING SUNDRY MODES OF TREATMENT OF THE ABOVE, CAN BE OBTAINED ON APPLICATION.

WOOD CARVINGS, ARCHITECTURAL, &c.,

EXECUTED FOR THE TRADE IN ALL STYLES.

ARTISTIC JOINERY IN ALL ITS BRANCHES,

COMPRISING—

Chimney Pieces. Staircases.

Ceilings. Mouldings. Doors, &c.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

TURPIN'S

PARQUET FLOOR, JOINERY, & WOOD CARVING Co., Ld.

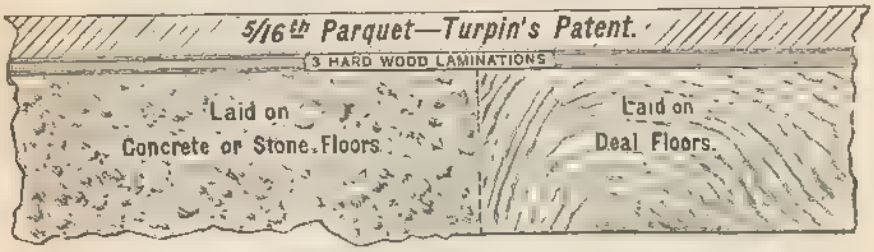
OFFICES AND SHOWROOMS,

22, QUEEN'S ROAD, BAYSWATER, LONDON, W.

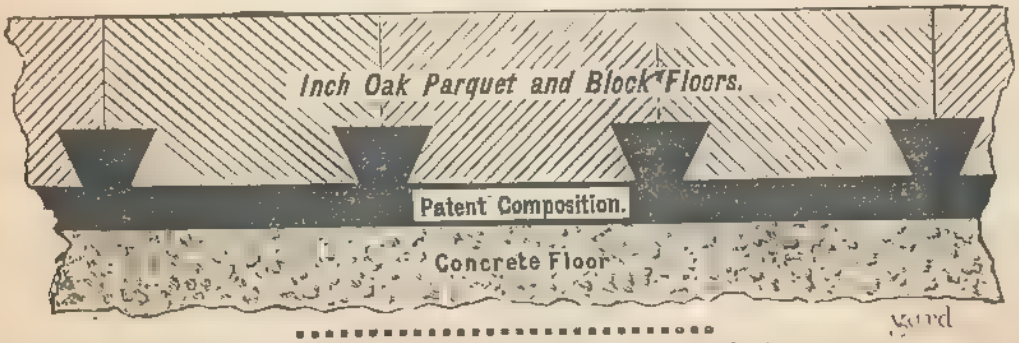
ESTABLISHED 25 YEARS.

1 INCH THICK PARQUET, from 7d. per foot super,
Solid throughout, for laying direct on Joists, Wood, or Concrete Floors.

$\frac{5}{16}$ INCH THICK PARQUET, 4d. per foot super
TURPIN'S Patent Construction for laying on Wood Concrete, or Stone Floors *(See Construction)*



1 INCH THICK OAK BLOCK FLOORINGS, at 4 10½ per yard super
Prepared on TURPIN'S System of laying on Concrete, or Stone secured on same with Dovetail Grooves and Patent Composition. *(See Section)*



1 INCH THICK ANTISEPTIC BEECH BLOCK FLOORINGS at 4 6 per ~~foot~~ yard super.
Prepared by TURPIN S System of Antisept c Infusion, forcing sap out of Timber replaced by Antiseptic Chemicals, and hardening Timber at the same time, for laying in Hospitals, Churches, Board Schools, and Public Buildings, effectually preventing the spreading of fevers, contagious diseases &c.

SPECIAL NOTICE.—An enormous Stock of over ONE MILLION superficial feet of the above thoroughly tested, seasoned floors ready for delivery, stored in specially fitted store rooms, where an even temperature is kept up all throughout the year.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE LATEST AND MOST IMPORTANT IMPROVEMENTS IN WOOD BLOCK FLOORING.

THE WOOD BLOCK FLOORING Co.

Being the largest Importers, Manufacturers, and Layers of every kind of Flooring in the Kingdom, we are in a position to give the fullest guarantee for First-class work, expeditiously carried out.

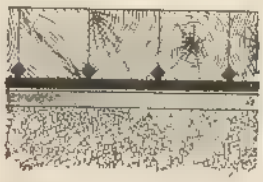
Large Stocks of DEAL, PITCH-PINE, OAK, &c., always on hand to meet urgent demands.

GEARY'S PATENT "INVINCIBLE" SYSTEM.*

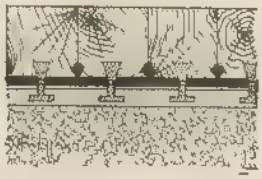
Each Block is keyed direct to the substructure by means of metal keys dovetailed into the Blocks. **No other system possesses this advantage.**

SECTIONS OF FLOORS LAID BY THE WOOD BLOCK FLOORING COMPANY.

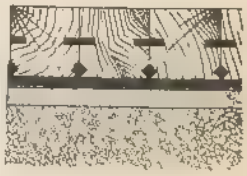
A



B.*



C.



The following prices are APPROXIMATE ONLY. *Special Quotations will be given on receipt of particulars (and plan where convenient).*

	A. 1"	A. 1¼"	A. 1½"	A. 2"	B.* 1"	B.* 1¼"	B.* 1½"	B.* 2"	C. 1"	C. 1¼"	C. 1½"	C. 2"
Red or Yellow Deal	..	5/9	6/-	7/-	..	6/6	6/9	7/9	..	6/6	6/9	7/9
Pitch Pine	..	6/3	6/9	7/6	..	7/-	7 6	8 3	..	7 -	7 6	8/3
Oak	9/-	10/-	11/-	12/9	10/-	11/-	12 -	13/9	10/-	11/-	12 -	13/9

Per Super Yard, Laid complete, exclusive of Concrete. B* *Includes "labour" of "floating" in Cement*

Prices given for any kind, thickness, size or pattern. Designs, Samples, &c., free on application.

SPECIFICATION.—Architects intending to specify are respectfully asked to insert "To be laid complete by the Wood Block Flooring Company, 22, Charing Cross, London, S W."

Parquet Floors. Quarter-inch, Half-inch, and Inch SOLID OAK Parquet Flooring laid complete in Patent Mastic Cement, on Concrete, Stone, Wood, or Asphalte from 9d. (¼ inch), 1s. (½ inch), and 1s. 2d. (1 inch) per super foot.

Chief Offices; 22, CHARING CROSS, LONDON, S.W.

A. E. GEARY, Manager.

Telegrams— "EDAPHOS, LONDON."

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE

WOOD BLOCK FLOORING Co.,

22, CHARING CROSS, LONDON, S.W.

A. E. GEARY, Manager.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT, &c.

OAK FITTINGS

OF ALL KINDS FOR

Churches, Banks, Schools, Mansions, Etc.

Pulpits, Benches, Reredoses, Staircases, Screens, Paneling, Carved Work, &c.

Manufactured at our own extensive Works out of naturally seasoned Wood (5 to 7 years in stock(

FIRST-CLASS WORKMANSHIP GUARANTEED.

Estimates free on receipt of Drawings and Specification.

WOOD BLOCK, PARQUET, AND WOOD MOSAIC FLOORINGS.

TONGUED AND GROOVED, AND "SECRET JOINT" OAK BOARDS,

Speciality—DARK AND LIGHT OAK.

THE

WOOD BLOCK FLOORING Co.

22, Charing Cross, London, S.W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

PETERS, BARTSCH & CO.,

Telegraphic Address—
"PETERS, DERBY."

DERBY.

Registered.] **CARBOLINEUM** [Registered.

"Avenarius,"

The well known PRESERVATIVE OF WOOD, STONE, ROPES, Etc., against ROTTING, DECAY, FUNGUS, Etc., and sure PREVENTIVE of DAMPNESS in WALLS.

Used with immense success by Military Authorities, Board of Works, Railway Companies, Tramways, Mines, Builders, Contractors, Public Gardens, Estates, Brewers, Etc., Etc.

TESTS UPWARDS OF TWENTY YEARS.

CARBOLINEUM *can only be had from*

PETERS, BARTSCH & Co., OR THEIR AUTHORISED AGENTS.

See also ANTIOXIDE INDESTRUCTIBLE COMBINATION WASHERS, *p* 143. , SMOKELESS STOVES & CHEMICAL HEAT RETAINERS, *p* 186.

THE SPIRAL WOOD CUTTING COMPANY, LTD.,

EDWARD STREET, WHARF ROAD, CITY ROAD, LONDON, E.C.

Steam Works for Joinery & every kind of Turning.

SPECIALITIES:—

SPIRAL TURNING.	SASHES & FRAMES.	WATER CLOSET SEATS.
	GOOD YELLOW DEAL.	*3 ft. wide, Ready for Fixing*
Spiral Balusters from 2/6 per dozen	1½ inch .. .. at 6d per foot.	American White Wood .. 1[illegible] each
Square Turning at hitherto unknown Low Prices.	1¾ inch .. .. at 6½d. per foot	Mahogany .. .. . 18/6 "
Plain Turning.	2 inch .. .. at 7d. per foot.	Walnut .. .. .. 21/- "

Balusters from 1s. 3d. per doz. Turning of Every Description done. Special attention given to Architects' Designs and Special Patterns.

Silver Medal Building Trades' Exhibition London. 1889

NOTES REFERRING TO GOODS IN THIS SECTION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Westminster Patent Flooring Company.

NEW PATENT "DISC-KEY" SYSTEM OF LAYING

WOOD BLOCK FLOORS.

BLOCKS PERFECTLY BONDED AND FIXED TO CONCRETE.

Scale 1in. to foot.—MEM. DOTTED CIRCLES SHEW POSITION OF "DISC-KEYS."

Concrete Blocks are now made 4in. by 4in. by 2¾in., and fixed at intervals of 1 yard, i.e., one at corner of every square yard of floor.

Improvement. This is a new and simple method of laying wood block floor, [illegible] fixing and economy.

System of Bonding. The blocks are grooved along the sides, and two "disc-keys," AA (of various patent shapes), are placed in the [illegible] into one compact piece.

Keying to Concrete Foundation [illegible] and attached to special "disc-keys" (BB), which tie the blocks firmly to the sub-structure. These nails do not show on the surface, and thus any unsightly holes, plugs, or wafers are avoided. (See illustration.)

Section shewing fixing disc-Key.

Bonding Blocks. The bonding blocks to hold the nails are made of specially prepared tough concrete, which, unlike wood, will not shrink, decay, or burn, and to which the cement concrete bed perfectly adheres. After a short time the nails hold tighter and firmer in this material than in wood.

"Disc-Keys" The discs are of galvanized iron (or zinc or other non-corrosive substance if desired), and being only about $\frac{1}{16}$in. thick, the blocks are not materially cut away. A thinner floor may, consequently, be laid, which is a considerable saving in expensive hardwoods.

Mastic. The blocks are laid in a strong waterproof composition, which prevents damp rising, preserves the wood, and forms an adhesive joint between the pieces and in the dovetailed grooves.

Woods. Deal, pitch pine, oak, American walnut, beech, birch, mahogany, jarrah, padouk, &c., are all kept in stock and can be prepared on due notice to any scantlings or specification.

Specifying. If architects will kindly inform us when they have specified this system, we can meet their exact requirements and avoid delay.

Schools, Basements &c. For heavy traffic, floors of foreign prepared blocks, similar to those laid in Board Schools (of which we hold a [illegible] The [illegible]

The price is naturally lower and we shall be pleased to quote for same if desired.

Imported "Disc key" Blocks We recommend, however, floors laid on "disc-key" system, as experience proves their superiority both in appearance and firmness. The frequent rising or unevenness of the blocks after they are planed is prevented. We have imported a large stock both in deal and oak, grooved and ready for laying, and can execute orders at short notice.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

DESCRIPTION OF WOODS FOR FLOORS WITH MOST SUITABLE USES

(Placed in Order of Value).

1. Deal Yellow. Cheapest. Deal is used [illegible] passages, and basements of town houses. Light clean colour.

2. Pitch Pine. Cheapest "hardwood." Used in Board Schools in London, &c., for hard wear. Clean, warm appearance. Striking ornamental grain if selected and polished.

3. Beech. Hard, close-grained impermeable wood of clean colour. Washes white and takes polish well. Suitable for barracks and public buildings under hard wear, and prison cells; also for hospital wards from its closeness, but should be [illegible] dark and polished. [illegible] if [illegible] and [illegible] angrily [illegible].

4. Birch Hard, pretty reddish colour, frequently with good figure, suitable for bed, billiard and other rooms, passages, &c.

5. Oak (wainscot). Tough, hard and ornamental. Quiet unobtrusive colour. Good wood for wear and durability in any position. Similar effect to parquet flooring, if selected for figure and polished.

6. Padouk. Hard Indian wood of bright red colour, with dark veins. Rich handsome floor if polished, but too dark colour alone in most positions. Suitable for borders or inlays with birch, oak or pitch pine.

7. Jarrah. Hard red eucalyptus from Australia. Frequently pretty wavy figure. Goes well with pitch pine, birch or beech; suitable for hospital wards or operating rooms. Close grain, practically indestructible by wear or rot. Now much used for street paving. Suitable for rough hard wear in shops, warehouses, restaurants and domestic offices. If selected and polished, useful for interior decoration.

8. Mahogany Honduras Soft, warm rich [illegible] harmonizing well with any other wood. Most ornamental grain and improves in colour with age.

9. Walnut (American, or "Black"). Dark brown or purple. Useful for borders or variegating oak, with which it harmonizes well.

10. Teak. Colour varies from dark rich brown to straw. Very hard, gritty and stringy. Suitable for passages, halls, or hard rough wear in factories or public buildings entering from street. Does not shew mud stains.

BOARDED FLOORS.

Speciality. We also fix or supply deal or oak, [illegible] and both hardwood floors with special joints designed to give great strength for secret nailing. Each angle of the tongue being slightly rounded, the arrises are not so liable to damage in transit, and the joint comes up closer.

Thin Covering Floors. Attention is drawn to our thin round-tongued oak floor, finishing from ½ to ⅝ thick for laying on rough deal floors in new buildings when the plastering is finished and the house is dry.

It can also be laid over old deal floors without seriously disturbing doors and other work.

This floor is fixed with patent glue and secret nailed with special flat elliptical steel floor brads.

⅜in. Floor. If required to be not thicker than ½ inch, this floor is prepared with square edges and nailed with very fine wire nails, and the holes filled with stopping, and the whole polished

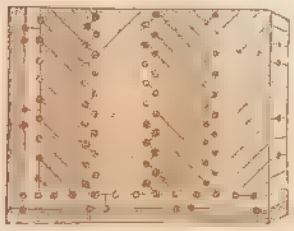
PRICE LIST OF PATENT DESICCATED "DISC-KEY" BLOCK FLOORING,

Showing approximate and proportionate cost for reasonable quantity laid in London within three miles circuit from works. If outside or in country add carriage of materials, railway fares, lodging, and time travelling.

I. Blocks planed all round and dovetail-grooved, dipped, and laid in special damp-proof mastic and properly cleaned off at completion. II. Blocks as in No. I., but specially grooved and laid on patent "Disc-key" system, each block keyed to 6 others.

	Prices per yard super.	I. Ordinary.			II. "Disc-Key" Patent.		
	Thickness	1 1/16in	[illegible]	3 in	1 1/16in	[illegible]	[illegible]
1	Deal yellow or red (size of blocks 18in. × 3in. nominal)	5 0	6 3	7 [illegible]	[illegible]	7 [illegible]	8 [illegible]
	Thickness	1in	1 1/16in	1 1/8in	1 [illegible]	1 1/16in	1 1/8in
2	Pitch pine " " "	4 9	5 6	6	5 [illegible]	6 5	[illegible]
3	Beech (size of blocks 12in. × 3in. nominal)	[illegible]	7 6	8 [illegible]	7 [illegible]	8 6	[illegible]
4	Birch " " " "	7 [illegible]	[illegible]	11 [illegible]	8 9	10 3	[illegible]
5	Oak wainscot (prime figured)	8 [illegible]	9 6	11	[illegible]	10	1[illegible]
6	Padouk (red Indian wood)	9 0	1[illegible]	12 [illegible]	1[illegible]	2	13 [illegible]
7	Jarrah (red Australian wood)	[illegible]	11 0	12 6	1[illegible]0	1[illegible]0	1[illegible]6
8	Walnut (American black)	1[illegible]0	14 [illegible]	[illegible]	1[illegible]	1[illegible]	[illegible]
9	Mahogany, Honduras	1[illegible]0	14 6	1[illegible]	1[illegible]	15 6	[illegible]
10	Teak	[illegible]	14 6	17 0	[illegible]0	1[illegible]	18 [illegible]
	Burnettizing extra per yard sup.	[illegible]	[illegible] 8	[illegible]	[illegible]	[illegible] 8	
	Wax polishing per foot sup.	[illegible]					
	French " "	[illegible]					

	Deal.	Hardwood.
Straight cutting and waste to margins ...	[illegible]	6
Circular or scribing	3	4



Ordinary Boarded Floors Laid in any Quantity.

1 in. PARQUETRY in any pattern supplied or laid complete with hardwood tongues or on our patent "Disc-key" system, with glue or mastic.

Also ⅜ in. PARQUET, or wood carpets, laid in special glue or in mastic.

For special designs see next two pages

SAMPLES & ESTIMATES SENT ON APPLICATION, ALSO ILLUSTRATED SHEETS OF PARQUETRY AND WOOD BLOCK FLOORS

Full Particulars giving description of Floor, also quantity, locality, and a rough tracing should be enclosed if possible.

FLOORS FRENCH AND WAX POLISHED, OR OILED, STAINED AND VARNISHED.

WESTMINSTER PATENT FLOORING Co.,

Offices and Show Rooms:—18k, ABINGDON ST., WESTMINSTER, S.W.

Opposite Victoria Tower of Houses of Parliament.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WESTMINSTER PATENT FLOORING COMPANY.

DESIGNS FOR PARQET FLOORING.

Mem. Prices are per foot sup. for the several patterns laid complete & max. pol.d in quantities of not less than 500 ft. sup. within 5 miles of works.

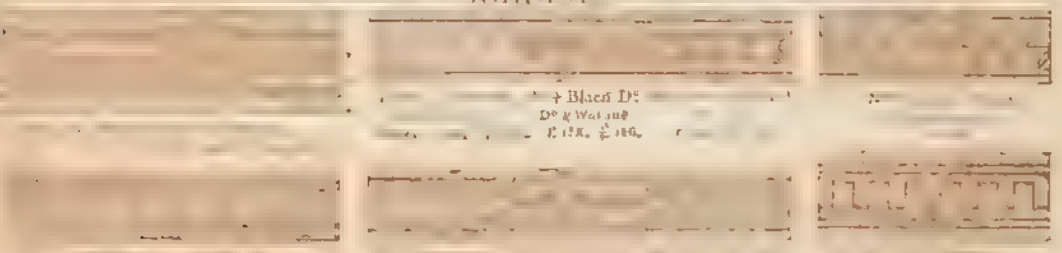
No. 1. Herringbone. Oak.
Price 1" thick 1.8½ & 8¾.

No. 2. Basket pattern.
Price 1" thick 1.12½ & [illegible]

Price 1" thick 1.4½ & 1.0.

Price 1" thick 1.4½ & 1.0½

Price 1" th 1.5½



Black Do.
Do. & Walnut
1.15½ & 1.16.

Reduction for large quantity — Offices & Show Rooms - 18 ABINGDON STREET, WESTMINSTER LONDON, S.W. — *Inspection invited*

Scale 1 0 1 2 3 Feet

P.T.O.

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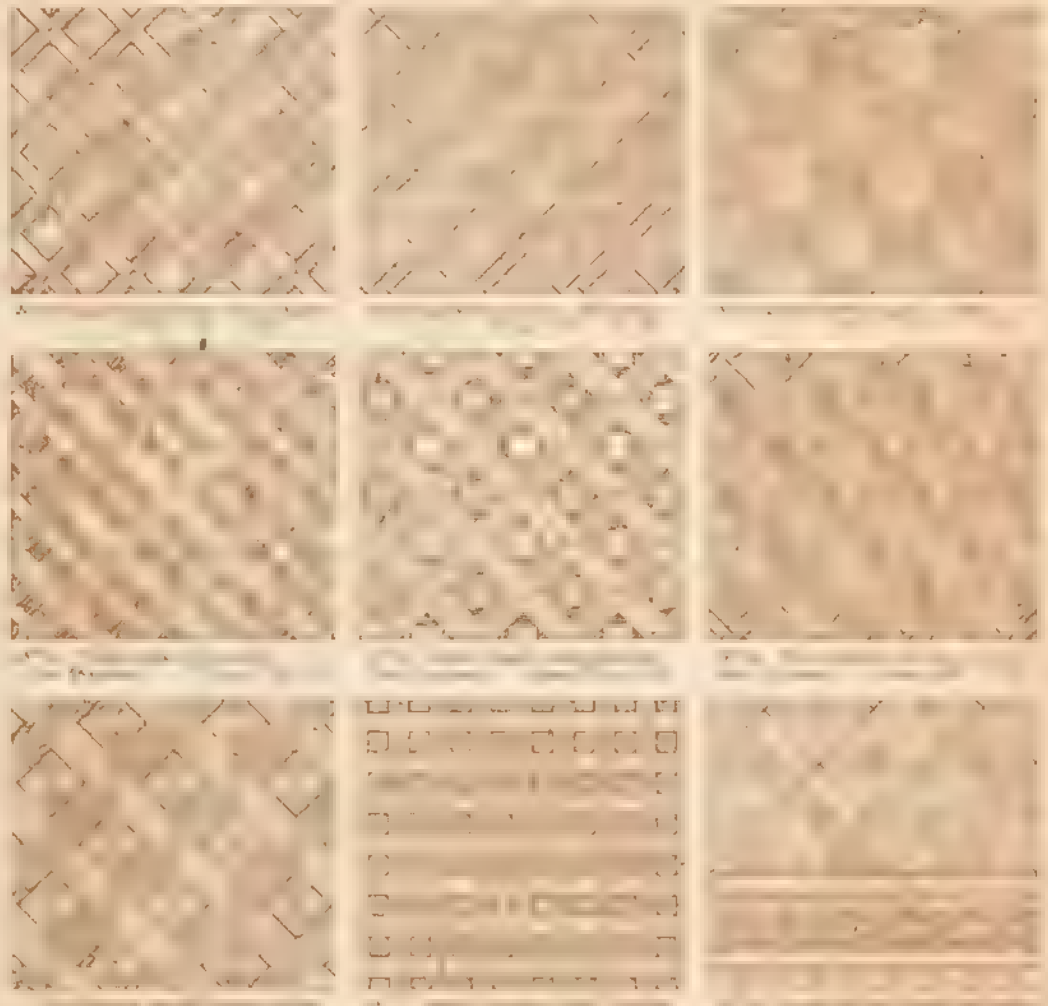
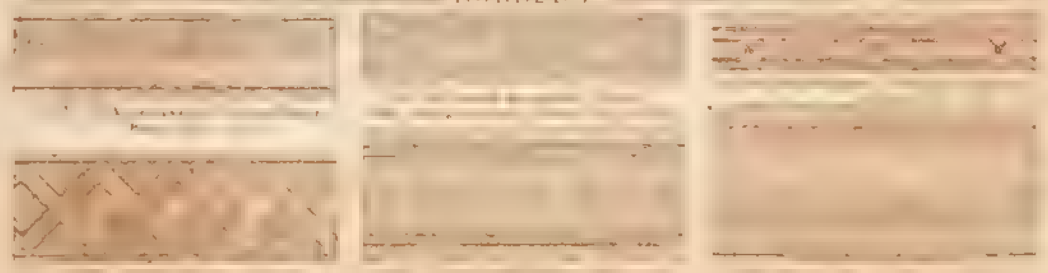
WESTMINSTER PATENT FLOORING COMPANY offices - 13 Kingdon St. London S.W.

DESIGNS FOR PARQUET FLOORING

FILLINGS



BORDERS



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THE

COMPLETE CATALOGUE.

Section C.

CEMENTS, LIMES, SLATES, ASPHALTES, &c.

COMPRISING GENERAL BUILDING MATERIALS.

FIRMS REPRESENTED IN THIS SECTION.

	PAGE		PAGE		PAGE
ADAMANT CO., LD., THE	127	JOHNSON, CLAPHAM & MORRIS ..	132	ROBINSON J. & CO., LD. ..	130, 131
ANDERSON [illegible] & SON Ld ..	12[illegible]	NELSON CHAS & CO., LD .	128	ROSHER F. & CO.	129
ELLIS J & SONS . .	132	PARRY H & CO .	133	UNITED WELSH SLATE CO., LD .	132
GREAVES, BULL & LAKIN ..	133	PENYRORSEED SLATE QUARRY CO LD	133	WHITE, WM	125

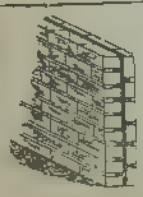
NOTES REFERRING TO GOODS IN THIS SECTION.

WILLIAM WHITE,

Head Office and Works — ABERGAVENNY.

GOLD.

SILVER.



A brick on flat and one on edge, equal suitable for Cottages, or where great economy is required. It is quite damp-proof, and equal in strength to a 14-inch wall built with mortar only.

INTERNATIONAL HEALTH EXHIBITION;

GOLD MEDAL

AWARDED.

Silver Medal Awarded.

Liverpool International Exhibition.

IN USE BY

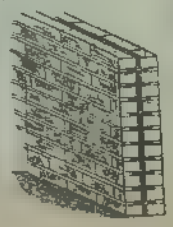
H.M.War Office, H M.Office of Works

H. M. Commissioners of Prisons.

The SUPERIORITY of the "HYGEIAN-FOLK"

BUILDING COMPOSITION

Over all other material for rendering Walls Damp proof, and increasing their Strength, is now universally acknowledged by the leading Architects, Engineers, & Contractors.



A wall built two half-bricks on the flat is much stronger than an 18-inch wall built in the ordinary way.

GOLD.

SILVER.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

C—CEMENTS, LIMES, SLATES, ASPHALTES, ETC.

D. ANDERSON & SON, LIMITED,

Sketch showing application of Felt and Silicate Cotton to Buildings.

PRICES, SAMPLES, AND INSTRUCTION FREE.

LONDON:	GLASGOW:	BELFAST:
812, OLD FORD ROW, BOW, E.	118, Broomielaw.	Lagan Felt Works.

126

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

TO ARCHITECTS, BUILDERS, AND OTHERS.

PATENT PLASTER & CHROMOLITH

FOR WALLS, CEILINGS, &c.

ADAMANT CO. LD. BIRMINGHAM. 1889

TRADE MARK.

For full Particulars apply to the Secretary,
105, COLMORE ROW,
BIRMINGHAM.

WORKS
COMMERCIAL STREET,
BIRMINGHAM.

Telegraphic Address
"ADAMANT,"
BIRMINGHAM.

THE ADAMANT COMPANY, LIMITED.

ADAMANT
Is the ONLY Plaster known that can successfully withstand the most severe Test influenced by the elements, and is guaranteed to remain intact as long as any Wall or Building stands to which it is applied.

ADAMANT ADVANTAGES ARE
- No Falling Plaster or ruined Decorations.
- No Shrinking or Warping of Doors and Casings.
- No waiting weeks for Buildings to Dry out.
- Walls and Ceilings so Solid that they neither Crack nor Shrink.
- Easy application by any good Plasterer, and, finished in Colours of every Shade when 'stippled.'

TELEPHONE
Works No. 489.
Registered Office, No. 485.

ADAMANT has received the Gold Medal of Excellence from the American Institute of New York 1888.

Also Gold Medal from the Great Exhibition York, 1889; First-Class Bronze Medal, Birmingham, 1889.

TESTIMONIALS.

From Messrs. MARTIN & CHAMBERLAIN, *Architects.*

106, COLMORE ROW, BIRMINGHAM,
27th February, 1889.

DEAR SIRS,
We have great pleasure in stating that we have used your Patent Adamant Plaster in several works which have been erected under our supervision, viz. The New Church of St. John, Sparkhill, The Borough Lunatic Asylum, Mr. Brett's New Residence, Putney, and several others.

The introduction of this material has been a great boon not only to the architect and builder, but also to all concerned in building operations. It facilitates the work by drying and setting quickly and the workmen by its use are enabled to follow up each coat immediately. This has saved a delay of at least a month in each of the contracts which have lately been carried out under our supervision.

In addition to these, it has the further advantage of setting much harder than the ordinary plaster, and of being fit for painting and papering almost immediately after it is finished. We are specifying it for New Board Schools and for some other large works upon which we are engaged.

Yours faithfully,
MARTIN & CHAMBERLAIN.

From Messrs. BATEMAN & BATEMAN, *Architects.*

13, WATERLOO STREET, BIRMINGHAM,
11th February, 1889.

DEAR SIRS,
From the experiments made with the material at your Works, and after using it in extensive alterations, both on new and old brickwork, and in making good to ordinary plastering on walls and ceilings, we consider it fully shows that you claim in its favour, and the small cost at which it may be adopted is fully met by the favourable results obtained.

We are specifying this material in new works we are engaged on, and shall continue to do so.

Yours faithfully,
BATEMAN & BATEMAN.

From Mr. JOHN TAYLOR, *Painter and Decorator.*

152, BROAD STREET, BIRMINGHAM,
November 7th, 1888.

GENTLEMEN,
In reply to yours, I beg to say that after having tried your materials, I find them a success. I have had the cement painted while in a wet state, and have baked it, but cannot interfere with it in the least.

Yours obediently,
Per pro JOHN TAYLOR, C.C.

From WM. HALE, Esq., *Architect and Surveyor.*

83, COLMORE ROW, BIRMINGHAM,
9th February, 1889.

DEAR SIRS,
I have much pleasure in stating my opinion of your "Adamant." I consider the fine quality far surpasses any cement I know of, either for finish or quickness in drying; the enriched work in ceilings you recently did for some of my works was followed up *at once* by the decorators, and highly-delicate work and colors have stood as well as on the old plastering (done years ago). I have also found great advantage in using your ordinary "Adamant" in plain walls and ceilings, especially in winter or damp weather, as work often taking four weeks can be done in as many days, as no time is lost in drying between the coats. Papering or colouring can also be quickly applied.

Yours truly,
WM. HALE.

From Messrs. J. BARNSLEY & SONS, *Builders, &c.*

102, RYLAND STREET, BIRMINGHAM,
February 28th, 1889.

GENTLEMEN,
Having used your patent plaster in several buildings for a variety of work, and under circumstances of special urgency, we have pleasure in stating that it has given us every satisfaction, both in the execution of the work, and its quality when completed; we consider it a very valuable plasterers' material.

We are, Gentlemen, yours obediently,
J. BARNSLEY & SONS.

PRICES AT WORKS.

No. 2 Adamant, for Walls, weighs 155 lbs. per bag; No. 2x, for Lath, 130 lbs. per bag; No. 1, 140 lbs. per bag.

When ordering state the kind required.

				s	d
ADAMANT	No. 2	..	Floating Coat (Walls) .. .. per bag	2	0
Do.	,, 2x		,, ,, (Lath) . . ,,	2	0
Do.	,, 1	..	Setting ,, . . ,,	3	0
Do.	,, 1x		Rough Stucco, or Stone Face . ,,	3	0
Do.	,, 1xx		Cornice Backing . .. ,,	2	9
Do.	,, 1A	..	,, Finishing .. .. .. ,,	3	6
Do.	,, 2A		,, ,, (pure White) . ,,	5	0
Do.	,, 2B	..	Rough Stucco, or Stone Face (for outside work) ,,	4	0
CHROMOLITH		..	Superfine Parian Face .. .. ,,	6	0

Bags charged 9d. each; 8d. allowed when returned in good condition.

Terms: 5 per cent. for cash on receipt of goods. 2½ per cent. for cash on 10th of following month.

Tints and Colours (to be stippled) according to order. Prices given on application.

7 lb. Sample Bags of any of the above materials sent free on receipt of 1/6, P.O.O. or Stamps.

Experienced workmen sent, if required, for giving instructions.

AGENTS.

BIRMINGHAM.—TAILBY & Co., Bordesley Street and Charlotte Street, Sole Agents for Birmingham and District.

LONDON KENNARD COLLINS & Co., 24, Haymarket, Sole Agents for London and District.

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EASTBOURNE.—CARLOS CRISFORD, 51, Gildredge Road, Eastbourne, Sole Agents for Eastbourne and District.

WOLVERHAMPTON.—J. G. NOAKE, Darlington Street, Wolverhampton, Sole Agent for Wolverhampton and District.

BURTON.—J. CISTATON & Co., Shobnal Mills, Burton-on-Trent, Sole Agents for Burton Pottery District, North Wales, and the Isle of Man.

STOURBRIDGE.—CHARLES MILLS, Enville Street, Stourbridge, Sole Agent for Stourbridge and District.

YORK.—T. W. CLARKSON, Whitby, Sole Agent for York and District.

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LEICESTER.—G. NICHOLLS, Leicester, Sole Agent for Leicestershire.

HASTINGS.—J. & P. PHILLIPS, 64, Vicarage Road, Hastings, Sole Agent for Hastings and District.

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CHAS. NELSON & CO., Limited,

Works: STOCKTON, RUGBY, & 16, SOUTH WHARF, PADDINGTON, W.

Telegraphic Addresses—"NELSON, Stockton, Rugby"; "NELSON, South Wharf, Paddington."

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NELSON'S BLUE LIAS LIME.

Eminently Hydraulic. Extensively used in Government and Public Works Contracts.

Proportions for Concrete—1 part to 6 of Ballast, &c.

Mortar—1 part to 2 or 3 of Sand.

PORTLAND CEMENT OF EXCEPTIONAL STRENGTH & FINENESS.

PATENT SELENITIC CEMENT

Prepared from Blue Lias. Very superior to that made from Grey Lime. Used for Mortar and Plastering throughout the new Courts of Justice, and many other Public Buildings. Equal to Portland Cement for many purposes at Cost of Lime.

Architects should specify that it is to be used in accordance with **CHAS. NELSON & CO.'S** printed instructions.

PLASTER AND KEENE'S CEMENT

Made from the Finest Gypsum.

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RED SUFFOLK BRICKS. WHITE SUFFOLK BRICKS.

F. ROSHER & Co.,

LIME, CEMENT, BRICK, TILE & SLATE

Manufacturers & Merchants.

LONDON WHARVES.

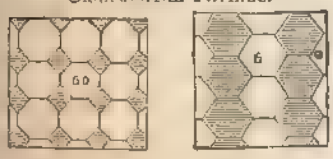
BLACKFRIARS (Head Office).—Old Jamaica Wharf, Upper Ground Street, S.E.
CHELSEA.—King's Road (Corner of Church Street), & Oak Wharf, Lot's Road, S.W.
KINGSLAND.—Kingsland Basin, Kingsland Road, E.
LIMEHOUSE.—Lime Kiln Hill, Three Colt Street, E.

MOULDED BRICKS OF EVERY DESCRIPTION FOR PLINTHS, JAMBS, ARCHITRAVES, LABELS, DENTALS, DIAPERS, PANELS, STRING COURSES ARCHES, CORNICES, COPINGS, &c.

OVER 300 PATTERNS IN STOCK. SPECIAL DESIGNS MADE TO ORDER.

GARDEN EDGING TILES.

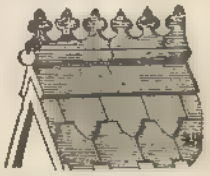
ORNAMENTAL PAVINGS.



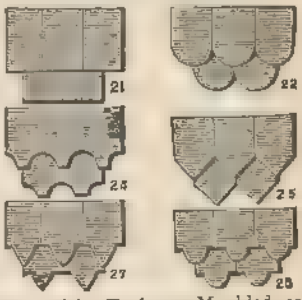
BLUE STAFFORDSHIRE STABLE BRICKS.

32 Bricks pave a Square Yard.
Weight per 1,000 about 3½ Tons.

ROOFINGS AND RIDGINGS IN GREAT VARIETY.



PLAIN AND ORNAMENTAL ROOFING TILES.



DELIVERY BY WATER CARRIAGE.—Any assortment of Red and White Bricks, Facing or Moulded, can be forwarded direct from Works by Barge at only one-third the cost for Freight to most points on the Thames (and elsewhere), as compared with Railway Carriage. Moreover, Bricks conveyed by barge are delivered in perfect condition, not being subject to continual oscillation as on Railway Trucks. F. ROSHER & CO. have every facility for delivery by Rail, where necessary or preferable from the nature or situation of the buildings.

London Agents for TEBBUTT'S Patent Safety Stable Paving Bricks.

RED TILES AND POTTERY.

PHILLIPS' PATENT LOCK JAW ROOFING TILES, RED PLAIN TILES (ALSO ORNAMENTAL), RED RIDGING, RED FINIALS, RED CHIMNEYS POTS, &c., IN GREAT VARIETY.

ILLUSTRATED PRICE LISTS, AS UNDER, ON APPLICATION.

Blue Staffordshire Goods
Staffordshire and Encaustic Tile Paving
Stable Paving Bricks and Clinkers.
Garden Edging Tiles.
Glazed Stoneware Drain Pipes and Terra Cotta Chimney Tops.

Sanitary Earthenware, Closet Pans, Traps, &c
Suffolk Moulded Bricks and Copings.
Artificial Stone Trusses, Terminals, &c.
Artificial Stone Vases, Fountains, and Statuary, &c.

F. ROSHER & CO., HEAD OFFICE: Old Jamaica Wharf, Upper Ground Street, Blackfriars, London, S.E.
PORTLAND CEMENT WORKS, SITTINGBOURNE, KENT. [See Page 93.

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JOSEPH ROBINSON & CO., LIMITED,

Telegraphic Address—
"ROBINSON, CARLISLE."

Alabaster Proprietors,

Manufacturers of ROBINSON'S FIREPROOF CEMENT for IMPROVED PLASTERING, Tile Setting, &c.

Keene's and Parian Cement Boiled and Baked Plaster of Paris, Mineral White, Terra Alba, Gypsum, Manure Driers, Pearl Hardening, &c.

GOLD MEDAL, 1889.

WORKS:—
KNOTHILL, near Carlisle; KIRBYTHORE, Westmoreland; and WHITEHAVEN.
Manager's Office—VICTORIA VIADUCT, CARLISLE.
London Offices—
120 QUEEN VICTORIA STREET, LONDON, E.C.

FIREPROOF CEMENT.

The following are among the advantages obtained by the use of

ROBINSON'S PATENT FIREPROOF CEMENT

FOR

PLASTERING, CEILINGS, CONCRETE FLOORING, &c., &c.

I.—It is absolutely Fire-proof. Capt. SHAW says:—"I am of opinion that the Robinson Cement submitted to me by Messrs. Joseph Robinson & Co., of Knothill Works, Carlisle, would be much more effectual in preventing the spread of fire than any other of the common plasters or cements generally used in this country."

II.—It is stronger than Keene's or Parian Cements, and even than the best Portland Cements. Mr. HENRY FAIJA, M.I.C.E., certifies that the average tensile strength of five briquettes, after twenty-eight days, equal 784 lbs. per square inch.

III.—It is easy to work, and sets as hard as rock, forming a good key on laths or brickwork.

IV.—It can be applied and completed at once, hence a room can be commenced and finished off in one day.

V.—It forms a beautiful setting for white glazed bricks, giving a much better appearance to the work than the usual ugly grey or black joints.

VI.—Varnished, it affords a superior substitute for white Glazed Brickwork, and may be advantageously used on either external or internal walls, where a good light is essential.

VII.—It is unequalled for FIREPROOF CONCRETE FLOORS. STRONGER and LIGHTER than any of the materials commonly used, and also a NON-CONDUCTOR OF HEAT.

ROBINSON'S CEMENT is made in three qualities, viz:—

No. 1, for finishing Coat on Walls or Ceilings, pure white, and capable of being polished to a beautiful surface—Whitewashing, Mouldings and Castings, Tile Setting, &c.

No. 2, for the first Coat in Plastering, with varying proportions of Sand, according to requirements.

No. 3, for Concreting, with 3 to 4 parts to 1 of any suitable aggregate.

PLASTERING.

PROPORTIONS. Sand.	No. 2 Cement.	QUANTITIES.
1	1	1 cwt. Cement will be required to cover a surface of 7 yards super ½-in. thick, on lath or brickwork.
2	1	1 cwt. Cement=11 yards super, ½-in. thick.
3	1	Do. " =15 " "
4	1	Do. " =18 " "
		1 cwt. Neat Cement (No. 1) will cover a wall surface of 15 yards super, ½-in. thick.

These proportions are by measure, not weight. 1 cwt. Cement equals about 1½ imp. bushels, and requires the same measure of sand to cover 7 yards super of wall surface ½-in. thick.

LATH WORK.—Laths not to be more than a quarter of an inch apart. After the first coat, scratch the face well to get a good key for the finishing coat.

STRENGTH. Robinson's Cement has stood a tensile strain of 880 lbs. per square inch. In a recent article in the "Builder" it is stated that 350 lbs. is a very good test for a Portland Cement briquette of the same age and size. See report by Mr. Faija, M.I.C.E., M.I.M.E., Hon. Assoc. R.I.B.A., Professional Cement Tester to the Trade.

JOSEPH ROBINSON & Co., Limited, *are now supplying their new "ROSE BRAND" PLASTER OF PARIS, which is made of the Whitehaven Red Alabaster, has a rose pink hue, and is* stronger *and* more economical *than any other make in the market.*

MERCHANTS AND OTHERS ARE INVITED TO APPLY FOR PRICES AND SAMPLES.

DIRECTIONS FOR USE.

Get clean sharp Sand, as dry as possible. This is of the first importance.

GROUND PORTLAND STONE has been found an excellent substitute for Sand, and Great Economy may be effected by its use when any large quantity of this Stone is used in buildings.

FIRST COAT. Mix the Sand and Cement dry in the gauging-box, and add sufficient water to make it rather thin. Thoroughly stop suction of walls, and apply in the usual way.

FINISHING COAT. Use neat Cement (No. 1 super) mixed rather thinner than ordinary skimming, and let it steep a few minutes before using.

LATHWORK. Laths should not be more than a quarter of an inch apart.

QUANTITIES. Proportions vary according to quality and suitability of the Sand, generally 4 or 5 and 1 may be taken as the correct proportions for brick walls, and 3 and 1 for lathwork and ceilings.

All Steel or Iron Tools must be kept clean, and a cross-grained or beach float is preferable for finishing.

Messrs. WILLIAM LEE, SON, & COMPANY, are the Sole Agents for the Company for LONDON, ESSEX, KENT, and SUSSEX, and the Cement can now be obtained at any of their Wharves and Depots, as under:—

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POINT PLEASANT, WANDSWORTH
193, BUCKINGHAM PALACE ROAD, PIMLICO
GRAHAM STREET, CITY ROAD, E.,
and
HALLING, NEAR ROCHESTER, KENT.

For other Districts apply to the MANUFACTURERS, Carlisle.

Further Particulars can be obtained by applying to the Manufacturers—

JOSEPH ROBINSON & Co., LIMITED, CARLISLE.

(SEE NEXT PAGE.)

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WORKS.

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ALABASTER PROPRIETORS,

Manufacturers of PLASTER OF PARIS of the Finest Quality for Builders, Modellers, Potters, Dentists, &c.

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THE Company's Alabaster Quarries at Whitehaven are estimated by experts to contain a deposit of Gypsum larger than any maritime area of Gypsum in the British Isles. They are, in fact, the only ones in the kingdom where the deposits are found in sufficient quantities near a sea-port. The very strongest Plaster of Paris obtainable is manufactured there, and owing to exceptional facilities, such as cheap coal, cheap labour, and sea freights, the Company is able to supply it to all parts at prices which compare favourably with the weaker Plaster of the Midlands. For information as to the Rose Brand Plaster, made of the Red Alabaster of Whitehaven, see preceding page.)

The Works at Knothill, near Carlisle, have been established many years, and the Plaster from these well-known Quarries is famous for its excellence throughout the Kingdom, but especially in the North.

* For full particulars of the **ROBINSON'S FIREPROOF CEMENT**, see preceding page. This Cement has been used on upwards of **500** different works, including Woolwich Arsenal; Hampton Court Palace; Her Majesty's Prison, Perth; in London at the Criterion buildings extension; Pavilion; St. James' Hall; American Exchange; Sion College, Thames Embankment; and numerous large Commercial Buildings; the New Law Courts, Nottingham; New Hospital, Burnley; Royal Hants Asylum; Cumberland Asylum; Esplanade Hotel, Bombay, Lewis's, Liverpool; Palmeira Co-operative Buildings, Brighton; Court Houses, Carlisle; and various large works at Sydney, Melbourne, Copenhagen, Hong Kong, &c., &c.

* For prices, particulars, directions for use, and other information, address **The MANUFACTURERS, JOSEPH ROBINSON & Co., Limited, Victoria Viaduct, Carlisle.**

See Preceding Page.]

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JOHN ELLIS & SONS,

Telegraphic Address— "ELLIS, LEICESTER."

8, MARKET STREET, LEICESTER.

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BARROW BLUE LIAS LIME.—There is no better Hydraulic Lime produced from the Blue Lias formation. Delivered in Lump or Ground to any part of the Kingdom.

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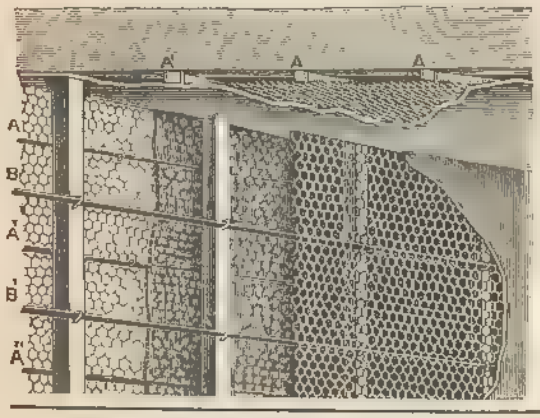

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Price 1s. per Square Yard.

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The Produce of the various Quarries is unexampled for excellency, and compares favourably in price with any in the market. The position on the coast gives unrivalled facility for rapid, convenient, and economical transit.

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LUMP AND GROUND.

The most uniformly Hydraulic and carefully manufactured Lias Lime in the Market.

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N.B. H. Parry & Co. are prepared to send Test Wagons, **Free of Charge**, to any one responsible for important works, and will bear all cost of such Tests should satisfaction not be given.

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ARE SITUATE AT HARBURY, WILMCOTE, AND STOCKTON, IN WARWICKSHIRE.

And are the most Extensive Works of the kind in the Kingdom.

GREAVES' BLUE LIAS LIME has been very largely used for upwards of sixty years in important works, and its superior quality and **EMINENTLY HYDRAULIC** character have been admitted by the leading Engineers and Architects during that period. Carefully prepared **DIRECTIONS FOR USE** both in **CONCRETE** and **BRICKWORK**, and other useful information concerning this Lime, may be obtained on application.

GREAVES, BULL, & LAKIN also manufacture from their Blue Lias **LIMESTONE SELENITIC LIME** (sometimes known as Patent Selenitic Cement), which, since the expiration of the Patent has become a very cheap as well as excellent material for **MORTAR, CONCRETE** and **PLASTERING WORK.**

FULL DIRECTIONS FOR USE ON APPLICATION.

GREAVES' PORTLAND CEMENT WORKS

Were one of the first established in the country (Sir C. W. Pasley, in his "Treatise on Cement" 1847 edition, mentions them as one of the first three). Within recent years they have been greatly enlarged and supplied with special machinery to ensure the **FINEST GRINDING**, and Greaves' Portland Cement is known as one of the best, strongest and most reliable Cements.

The following are a few of the works in which the above have been used during the **LAST TWELVE MONTHS (1889).**

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Large Export Orders for Africa and South America.

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Manchester Ship Canal.
Birmingham Cable Tramway.

SELENITIC.

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Most of the Principal Railway Companies, and many Town Councils, Local Boards of Health, &c.

Prompt Delivery by Rail and Canal to all parts of the country (in owner's covered trucks and boats), and by cart in London and Birmingham. Export Orders undertaken at the shortest notice. Equal facilities for shipping at London, Liverpool, & Bristol.

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THE

COMPLETE CATALOGUE.

Section D.

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D—ENGINEERING AND FIREPROOF CONSTRUCTION.

NOTES REFERRING TO GOODS IN THIS SECTION.

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AMERICAN ELEVATOR COMPANY.

MANSION HOUSE BUILDINGS,

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Manufacturers of

ELEVATORS AND LIFTS,

HYDRAULIC OR STEAM,

FOR PASSENGERS OR FREIGHT.

THE cut shows a Standard Hydraulic Passenger Elevator. We confidently claim for this Elevator that it is by far the safest which has ever been built, and we are able to say that of the countless millions of Passengers who have been carried by our Passenger Elevators, not a single one has suffered loss of life or limb from any accident to any such Elevators during the entire period of thirty-six years which we have devoted to Elevator Manufacture. The Special Data required by us as a basis of estimating the cost of any particular type of Elevator is indicated by our Special Pamphlet descriptive of such Elevator. This will be furnished on application, and, if desired, we will also, wherever practicable, send one of our representatives to advise as to the kind and capacity of machine best adapted to the proposed service, and any details pertaining to its location, erection, or maintenance.

In cases where advice, information, or estimates are desired by mail, the application should include a general description of the building, the nature of the business, the motive power available, and, if possible, a plan of one floor and elevation of the building, giving dimensions, and showing proposed location of the apparatus.

Standard Hydraulic Passenger Elevators are in use in Brighton, Bolton, Buxton, Edinburgh, Harrogate, Hastings, Bradford, Leeds, Liverpool, London, Torquay, Tunbridge Wells, Ventnor, Great Malvern, Glasgow, Manchester, Scarborough, Sheffield, Southampton, Dublin, Belfast, Paris, Cannes, Berlin, Amsterdam, Rotterdam, Geneva, Lucerne, Buda-Pesth, Vienna, Stockholm; in Australia, China, Egypt, &c, and in every city of importance in the United States.

Amongst the best known buildings in the above cities in which these Elevators may be seen running, we may mention, in London, the Hotel Victoria, 4; the National Liberal Club, 3; Whitehall Court, 18; Savoy Hotel, 6; the London and North Western Railway Company's New Office Building, Westminster; Great Northern Railway Company's Hotel, King's Cross; South Kensington Hotel; Bailey's Hotel; Glasgow Municipal Buildings; Manchester Town Hall; the South Western Railway Company's Hotel, Southampton. In Paris the Hotel Bristol, Hotel Chatham, Hotel Continental, Eiffel Tower, 2 (500 feet rise).

It has been ascertained that in New York City only, more passengers travel on our Elevators than on the Metropolitan and District Railways of London combined.

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PRIZE MEDALS AWARDED.

By Royal Letters Patent for England and France.

LONDON 1851 — LONDON, 1862 — TWO PRIZE MEDALS. — PARIS, 1867 — GRAND MEDAL & DIPLOMA

M. H. BLANCHARD & CO.,

Successors to COADES' ORIGINAL TERRA COTTA WORKS, LAMBETH, Established 1769.

TERRA COTTA MANUFACTURERS TO THE ROYAL FAMILY,

And the Several Departments of the Government,

BISHOP'S WALTHAM, HAMPSHIRE.

TERRA COTTA.

ONE HUNDRED AND TWENTY YEARS have now elapsed since the establishment by the Messrs Coades at Kings Arms Stairs, Narrow Wall, Lambeth, an Opposite Westminster, of the Manufactory of Terra Cotta Works, for the decoration of residences and Towns in these Kingdoms as well as in foreign parts, contain specimens of which characterised by material and externally, as in Coats of Arms, Capitals of Columns, Statues, Terminals, Corbels, Vases, and other architectural decorations. The most recent proofs of the art have been seen in the decorations and [illegible] of the Palace at Sandringham. The increasing demands in architectural types, peculiar to the manufacture, [illegible] Stone, renders an accurate [illegible] to the other Stone Materials, are considerably impaired, and the whole cost of by the cheaper properties of Terra Cotta, [illegible] Frost and damp, having effect upon it consequently retains a sharpness, not to be diminished by the changes of climate, [illegible] adapted for Stone and Architectural Decorations for Pyramids, [illegible] Arches, or over Niches, Monuments, which are to be exposed to the air. For Parks, Gardens, Colonnades, Bridges, Temples, Churches or Cemeteries, or decorators of Churches, it is also a superiority of drainage over any other material, and a more secure climate, amongst its other qualities is its resistance both of electricity or common fire. Of the one the partaking of the properties of glass in that respect is a sufficient demonstration, and where a [illegible] applied, it has been found down in consequence of such as the Orleans Arms, in the Pavement of the Terrace, in a row of houses at Kensington, and other places, [illegible] that has not received the slightest injury, and [illegible] free from rust. And the High Class of works executed, is a material and lively evidence that Artists of the highest reputation have been and are still employed in its branches. [illegible] Many, [illegible] judgments are due to the genius of Bacon, Flaxman, Devere, Benjamin West, Panzetta, Watson and Woodington, whose assistance or the predecessors and [illegible] enjoyed. This material have been and still is employed by the most eminent Architects and others.

It is with pleasure we beg to announce that [illegible] Majesty the late King George IV was pleased to honour Coades's Manufactory with his patronage and approval, and [illegible] Royal Highnesses the Prince of Wales and Duke of York have in a like manner granted their countenance, which was [illegible] the present Royal Family, and the [illegible] interest in the application of Terra Cotta in this country, by [illegible] desire for the Royal Horticultural Gardens, and the Permanent Buildings, South Kensington Museum.

This material has a preference to Portland Stone in point of cheapness, especially in proportion to the enrichment of the work.

From M. H. B's long experience and intimate knowledge from nearly [illegible] years, [illegible] the manufacture and application, is now taken [illegible] Works [illegible] by Messrs. M. H. Blanchard & Co.

BEDFORDSHIRE.—Ampthill, Luton Chase, Sands Priory, West Hall, Selso, &c.

BERKSHIRE.—Windsor, St. George's Chapel, St. Leonard's, Beaumont Lodge, Stoke, Eton, Winkfield, Sunninghill, Sulhampstead, Reading, Caversham, Highclere, Maidenhead, Bradford Hall, Laverstoke Vases &c. at Cliveden House, the Seat of [illegible] of Sutherland, &c. [illegible] House, Farnborough.

BUCKINGHAMSHIRE.—Stowe, Dingley House, Langley Church, Tyringham, Hughenden, Dorney, &c.

CAMBRIDGESHIRE.—Chippenham, the Vicarage, &c. [illegible] College, &c.

CHESHIRE.—Eaton Park, Hooton, Lodlington, Nantwich, &c.

CORNWALL.—Tehidy Park, Truro Theatre and Infirmary, Whiteford, Callington, St. Austell, &c.

CUMBERLAND.—Carlisle, Corby Castle, &c.

[illegible]

DEVONSHIRE.—[illegible] Sloper Lodge and Church, Swanage, [illegible] Arrington, Creech Hall, Tiverton, &c.

DORSETSHIRE.—Milton Abbey, Lulworth Castle, Poole, Weymouth, Bridport, Canford Manor, Wimborne.

DURHAM.—[illegible] Castle, Wynyard, Sedgefield.

ESSEX.—Chelmsford, Wanstead, Wanstead Church, Aldenham, Ind Debdon, Hall, and Church, Southend, Wanstead Church, &c.

GLOUCESTERSHIRE.—Tetbury, [illegible] Dyrham Park, Cotswold, &c.

[illegible] Bannisters, [illegible] Cowes, [illegible] Testimonial, Isle of Wight.

HEREFORDSHIRE.—Stoke Castle, Leominster, Lucton, &c.

HERTFORDSHIRE.—[illegible] Barkway, &c.

[illegible] Hornby Hall, [illegible] Colossal Statue of King George III [illegible] at Lincoln Heath.

[illegible] Stanmore, [illegible] Horse.

[illegible] Carlton Hall, &c.

[illegible] Theatre, &c.

[illegible] Chamber, New [illegible] &c.

OXFORDSHIRE.—Oxford [illegible], Canal Company, Banbury Church, Daylesford, &c.

RUTLANDSHIRE.—Normanton Hall, &c.

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SHROPSHIRE.—Shrewsbury, Shiffnall, &c. Statue of Lord Hill at Shrewsbury—seventeen feet high

SOMERSETSHIRE Market Drayton, Bath Keynsham, Somerton &c.

STAFFORDSHIRE. — Burton-on-Trent, Loughborough House, Weston &c

SUFFOLK.—Heaveningham Hall, Redgrave Hall Bungay, Woolverton, Ipswich, Great Saxham Hall Twisted Hall, Sudbury, Oxford Lighthouse, Botterdale, Langham, &c.

SURREY.—Waverley Abbey, Oatlands Wimbledon, Putney, Richmond Park, South Lambeth, Dulwich, Ewell, Roehampton, Grove Lane, Camberwell, Battersea, Mitcham, Petersham, St. Ann's Hill, Surrey Square and Paragon, Lambeth, &c.

SUSSEX.—Goring Park, Steyning Church, Goodwood, Duke of Richmond's, Brighton Pavilion and Church, Arundel Castle, Midhurst, Hammerwood Lodge, Ashdown Park, East Grinstead, Pitts Hill, Bignon, Petworth, &c.

WARWICKSHIRE.—Warwick Castle, Warwick, Hams Hall, Henley Arden, a Colossal Royal Arms to Birmingham Theatre, Hinks and Well's Large Pen Works, Birmingham

WESTMORELAND Windermere Lake.

WILTSHIRE.—Long Leat, Stourhead, Bowden Hall, &c.

WORCESTERSHIRE.—Worcester, Croome, Hagley, Leafowes, Salwarpe, Fladbury, Evesham, Honington, Shipton-upon Stour, &c.

YORKSHIRE.—York Barracks, Sledmere Wentworth, Heaton Lodge Byram, Wikeham Abbey, Doncaster, Malton, Burton, Hull, Newby, Boroughbridge, Bretton Hall, Wakefield, Fremington, Stockton &c

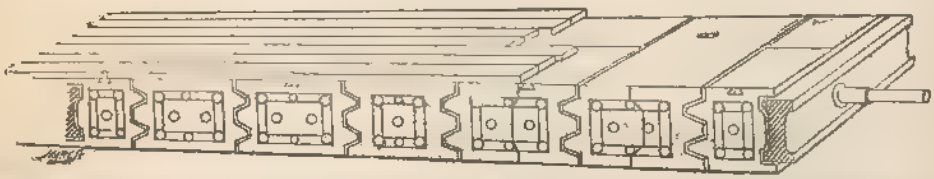
SOME OF THE WORKS EXECUTED BY US.

The whole of the Ornamental Columns and other Works to the Royal Horticultural Gardens; the whole of the Embellishments to Orleans House, for H.R.H the Duke d'Aumale; the Terra Cotta Work to the Permanent Buildings, South Kensington Museum, Charing Cross and Langham Hotels, and Star and Garter, Richmond, the New Mansions, Grosvenor Gardens, Pimlico; the Cannon Street Hotel and Terminus, City, the Wedgwood Institute, Burslem, Staffordshire; and the Grand Hotel, Cairo, Egypt. And we may further add that the Terra Cotta Work to the Ornamental Brick Screen together with the Sykes Large Columns and those to the Boiler House in the British Section Paris Exhibition were executed by us, and so favourably mentioned in the *Times Builder Illustrated London News* and other leading Journals, AND FOR WHICH A GRAND MEDAL AND DIPLOMA WERE AWARDED.

FIRE! FIRE!! FIRE!!!

A GOOD SERVANT BUT A BAD MASTER.

NO MORE BURNING FLOORS, STAIRCASES, or ROOFS. These can be prevented by using Mark Henry Blanchard's Patent Improved Fireproof Terra-Cotta Chambered Blocks, Slabs, and Tiles.



By the use of these Blocks floors can be made absolutely fireproof and adapted to old buildings as well as to new, without the aid of concrete or lime for its combination with other materials which are only fire-resisting.

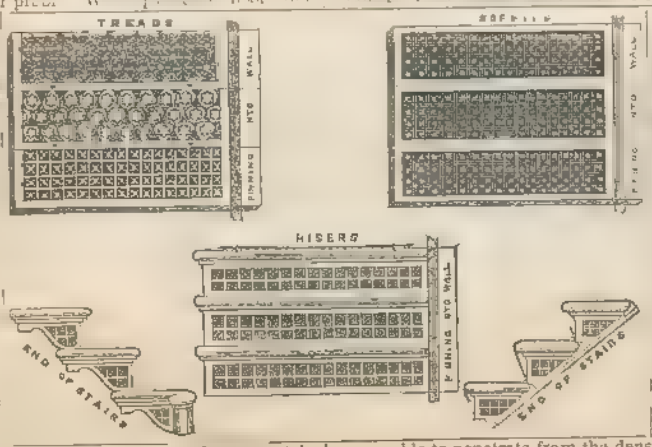
M. H. Blanchard's Patent Fireproof Flooring Blocks do not require any plastered ceilings concrete coverings or wood flooring as they form flooring and ceiling as seen diagram The iron or steel used in their construction is embedded in the solid of the terra cotta, it is entirely protected from the action of the fire, and it is capable of bearing enormous weights, and is the cheapest fire-proof floor extant.

The Blocks are vermin proof weather proof fire and water proof, sound-proof, and burglar proof. When [illegible] floor and roofs, and any kind of con-[illegible] the Blocks form ceiling and floors, thereby saving a great expense over other "fire-resisting" flooring No dry rot through the use of improper timber. A large item is saved in brickwork spreading over a large area of building, in consequence of flooring not increasing the depth, 6½ inches or 9 inches only being required for each floor

These fire-proof Blocks if used for floors, roofs, and such-like purposes, and when toothed in, interlock and joggle jointed, keyed and geared up, cannot collapse, no matter how strong the surrounding fire as there is no cement or other materials to give way under the action of fire and water. The joggle joints prevent smoke, effluvia, or smells passing from one apartment to the other. Floors so constructed are warm and dry in winter and cool in summer by the admission of warm, air fresh air they are readily fixed by any ordinary workman they require very little material to join them together therefore there is no waiting for setting or drying of concrete or plastering the heavy cost of carriage which often occurs is saved.

Apartments or buildings erected with these Blocks can be occupied a few hours after being fixed, the work can proceed in any season of the year without being shaken by frosts; consequently there is a great saving in time and material, as well as in cost, by their use.

They can be conveyed to the Colonies or any distance at a moderate [illegible] as they pack closely together and do not damage by [illegible] and can not get misplaced.



They can be used plain or [illegible] highly [illegible] for external or [illegible] work. When desired, [illegible] flooring, panelling, friezes or other decorations can be securely fixed to the floors, walls, and ceilings by metal plugs provided for and let into the body of the terra-cotta blocks.

The iron or metal tubes when used in place of the tie rods can be utilised for water, steam, and other extinguishing bodies for the extinction of fires, that may occur to the contents of the buildings from spontaneous combustion and other causes, and can be set in action from the external part of the building to where the fire may be discovered, and where firemen and others are unable to penetrate from the density of smoke or other causes.

The Blocks are suitable for all building purposes and artisans dwellings, warehouses, residential flats, from the humblest dwelling to the palatial mansion.

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JOSEPH EVANS & SONS,

London Office:
52, QUEEN VICTORIA STREET, E.C.

WORKS: WOLVERHAMPTON.

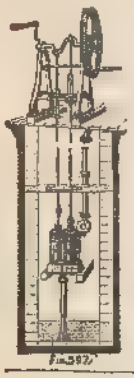
DEPOTS: NEWCASTLE-ON-TYNE, GLASGOW MANCHESTER, SHEFFIELD, and CARDIFF.

TRADE MARK.

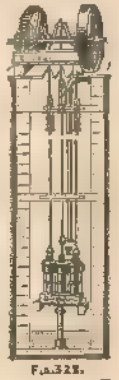
MELBOURNE CENTENNIAL EXHIBITION, 1888-9.

THREE FIRST "ORDERS OF MERIT," THREE GOLD MEDALS, AND ONE "SPECIAL MENTION," AWARDED EVANS' PUMPS.

APPLY FOR CATALOGUE NO. 6A.



Bore of Working Barrel	2"		2¼"		2½"		2¾"		3		3½"		3¾"		4"		4½"		5"		6"	
	£	s. d.	£	s. d	£	s. d	£	s. d.	£	s d	£	s. d	£	s d	£	s d	£	s d	£	s. d	£	s d
FIG. 1A. Iron Cistern Pump, Brass Unions	0	10 0	0	12 0	0	13 0	0	14 6	0	16 0	1	0 0	1	3 6	1	10 0						
FIG. 34.—Complete 4 ft. 6 in. high, 3 ft. under Spout			....		1	13 6	....		1	19 0	..		2	2 6	2	8 6	3	0 0	3	18 0	5	10 0
FIG. 69. Complete, raft, under Spout	3	12 0	....		4	0 0	....		4	9 0	..		5	6 0	7	0 0	....		....		....	
FIG. 102. Complete for Wells 30 feet deep	....				4	16 0	....		5	7 0	....		6	4 0	7	0 0	8	0 0	....		....	
FIG. 131. Strong Brass Lift and Force Pump on Oak Plank	2	15 6	....		3	7 6	....		3	18 0			4	12 0	5	6 6	7	10 0	....		....	
FIG. 166G. Iron Pump, with Brass Unions	..				11	0 0			10	10 0			11	0 0	11	13 0	....		18	0 0	....	
FIG. 322. Engine Frame & Double Brass Pumps with Doors for Valves	....		....		16	5 0	..		18	0 0	...		20	0 0	21	10 0	...				...	
FIG. 307.—Frame, with Brass Pumps, complete for 30 feet Wells	....		..		23	0 0	....		24	10 0	...		26	10 0	30	0 0					.	
FIG. 328.—Frame and Brass Pumps for 30 ft. Wells	....		....		44	0 0	....		46	0 0	..		48	0 0	52	0 0					..	



WATER SUPPLY For ESTATES, MANSIONS, VILLAGES, FARM BUILDINGS, &c.

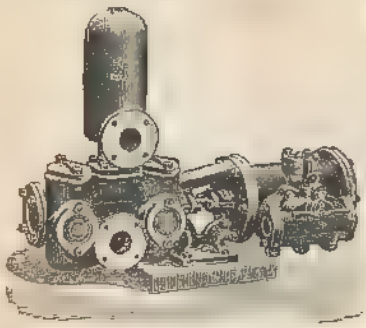


FIG 600.—"EVANS-TONKIN" PATENT "CORNISH" DIRECT-ACTING STEAM PUMP.

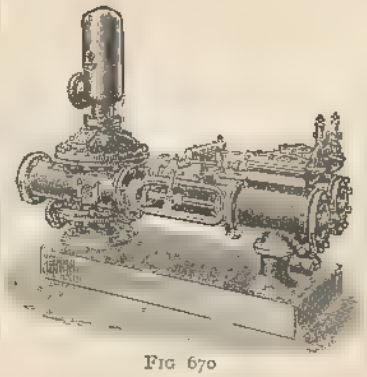


FIG 670
DUPLEX PUMP FOR GENERAL PURPOSES.

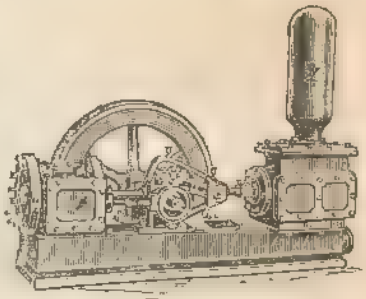


FIG 680.
EVANS' PATENT "RELIABLE" DOUBLE-ACTING PUMPING ENGINE.

Bore of Steam Cylinder	Ins.	4	4	4	4	5	5	5	5	6	6	6	6	7	7	7	7	7	8	8
" Water Cylinder ..	"	2	2½	3	4	3½	3	4	5	3	4	5	6	3	4	5		7	4	4
Length of Stroke	"	9	9	9	9	1[illegible]	12	[illegible]	12	12	[illegible]	12	12	1[illegible]	[illegible]	1[illegible]	1[illegible]	[illegible]	1[illegible]	24
PRICE OF FIG 600	£	11	12	13	15	15	16	19	22	17	20	23	28	19	23	23	28	34	24	29
Bore of Steam Cylinder ..	Ins.	4	4	5	5	6	6	6	7	7	7	8	8	8	10	10	10	10	12	12
" Water Cylinder ..	"	2	3	3	4	3	4	4	4	5	6	4	5	6	5	6	6	7	6	7
Length of Stroke	"	4	4	6	6	6	6	6	9	9	9	9	9	9	9	9	12	12	12	12
PRICE OF FIG. 680	£	21	23	28	32	32	35	44	50	58	60	56	60	63	70	75	90	95	105	110

PRICES OF OTHER SIZES, & OF FIG. 670 ON APPLICATION

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HOMAN & RODGERS,

ENGINEERS & PATENTEES,

London Telephone, No. 1,026. *Telegrams: "Homan Rodgers, London." "Namoh, Manchester."*

17, Gracechurch St., London, E.C., & 13, Dawson St., Manchester.

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FLAT ❖ BRICK ❖ FIREPROOF ❖ FLOORS.

LONDON, 1874.

NO THRUST.

BRUSSELS, 1876.

THE *best* as well as the *cheapest* Fireproof Floors yet introduced. Their small cost makes them specially suitable for Residential Flats, Offices, Chambers, Private Houses, Stables, Breweries, Malthouses, Dock Warehouses, Factories, Warehouses, and Artizans' Dwellings.

They are constructed with purpose-made hard-burnt bricks, with specially moulded dovetail projections, forming a mechanical key to hold the plaster protecting the iron, and provided with wedge joints throughout, forming the most compact and solid floor known.

Experiments show a resistance to load and impact greater than furnished by the ordinary concrete floors. No thrust is transmitted to the walls, as in all arch construction, the walls being tied in and strengthened.

The floors are practically noiseless, the different densities of the concrete, brick and plaster, with the air space above, intercepting the sound vibrations.

The soffits of the bricks are specially prepared to key up the ceiling plaster. No laths or counter ceiling are necessary.

They are not affected by water, acids, or alkalies, and they may be fixed during the progress of building, thus dispensing with the use of internal scaffolding.

The concrete being tough instead of friable, the boarded finish may be nailed down without the use of sleeper joists. It is recommended to use an inch strip as a sleeper fillet. This will provide ventilation, and space for gas and water pipes.

The depth of the finished floor is six to nine inches only, and when the saving on this head is taken into account, the cost does not exceed that of the ordinary combustible timber floor of corresponding strength.

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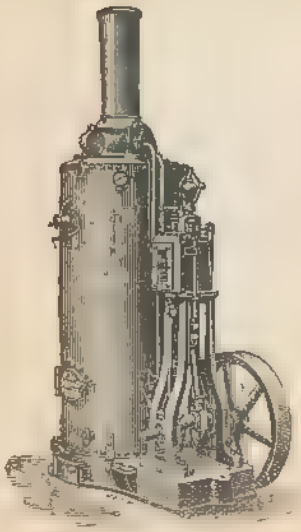
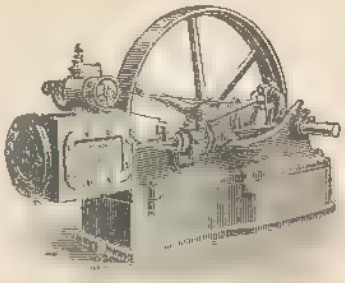


Hoisting Engines, Frictional or Geared.



Saw Benches, Donkey Pumps.

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Automatic Fire Extinguishing Apparatus for Mills, Factories, Public Buildings, and Private Houses.

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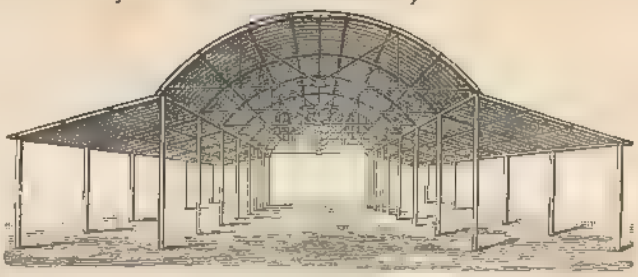

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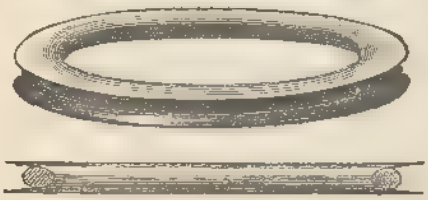

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These Washers consist of soft metal sheeting, without any joint, grooved outside, containing in groove Asbestos or other packing material They adapt themselves easily to any unevenness in the flanges and cannot blow out

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(PRIESTMAN'S, HUME'S & ÈTEVE'S PATENTS).

USES ONLY COMMON KEROSENE OILS, AND THEREFORE PERFECTLY SAFE.

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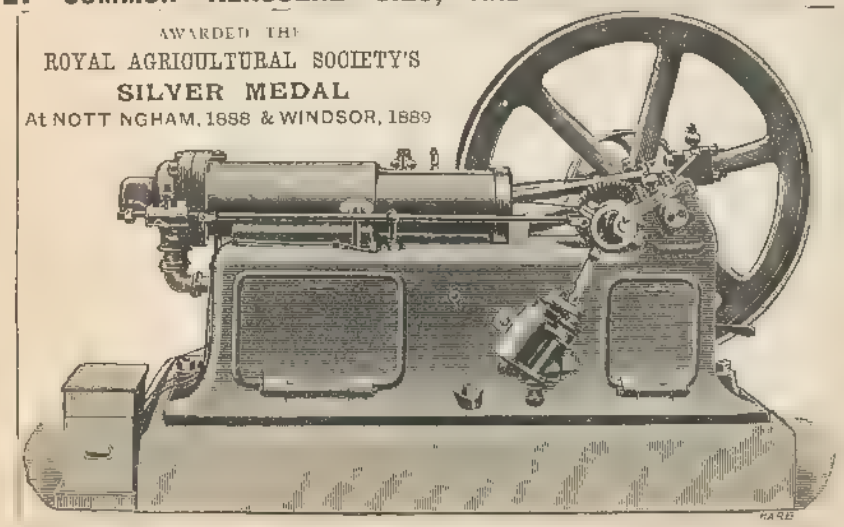

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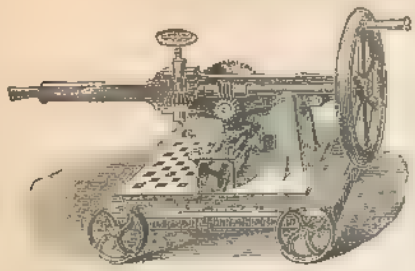

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Upto 1¼	4	5 tons
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Made of Steel, and adjust themselves.

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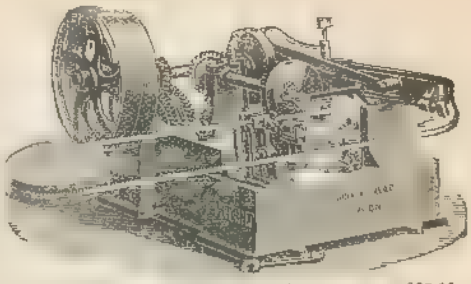

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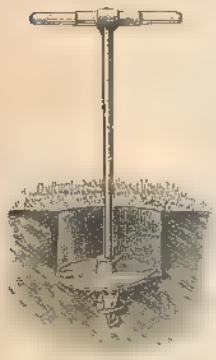

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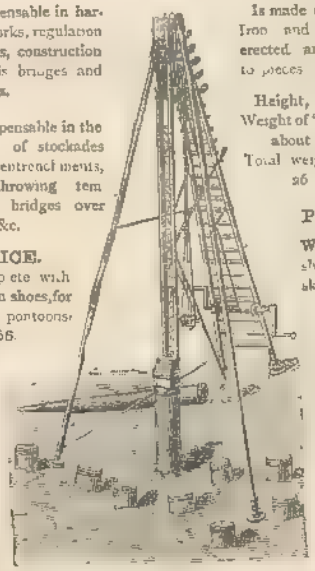

Is made entirely of Iron and is easily erected and taken to pieces.

Height, 30 feet.
Weight of "Monkey," about 6 cwt.
Total weight, about 26 cwt.

PRICE.

Without the shoes, as per sketch, £54.

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For foundations, bridge building, scaffolding &c.

PRICES

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12 in.	56	22/6
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For Earth, and Ore, and Foundry use.

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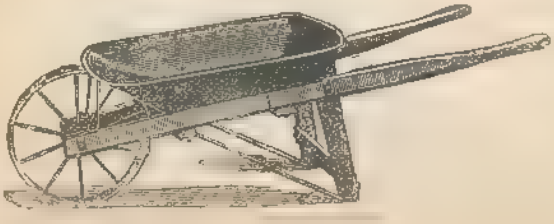
Capacity, 3 cubic feet

Price £18 per dozen.

Knocks down completely for Shipment.



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HYDRAULIC ✦ ENGINEERS.

HYDRAULIC PASSENGER LIFTS

may be constructed on either of two systems—"DIRECT-ACTING," in which the cage or car is pushed upward from beneath by a Ram or Piston; and "SUSPENDED," in which the Cage is raised from above by one or more suspending cables or chains.

R. WAYGOOD & CO. make both kinds in large numbers, and will be pleased to forward a pamphlet giving full description and comparison of the two systems on application.

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(As shown in Illustration)

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One of these Lifts gained the Highest Award, with special mention, at the Melbourne Exhibition, 1888.

When, however, this kind of Lift is not suitable, on account of expense or difficulty in sinking the necessary well for cylinder, we recommend

WAYGOOD'S SUSPENDED LIFT

With Four Steel Wire Ropes and latest improved safety appliances, which are so arranged that if either of the four Ropes failed the descent of the Cage would be immediately arrested.

Lifts of this type may be seen at The Grand Hotel Charing Cross; Hotel Metropole, Monte Carlo; Burlington Hotel, Eastbourne; Alexandra Hotel, Hastings, and many other places.

In asking for Quotations, state Load to be raised, Height of Lift, Size of Cage, and Water Pressure available for working, either from street main or tank at top of building.

HYDRAULIC GOODS LIFTS AND CRANES.

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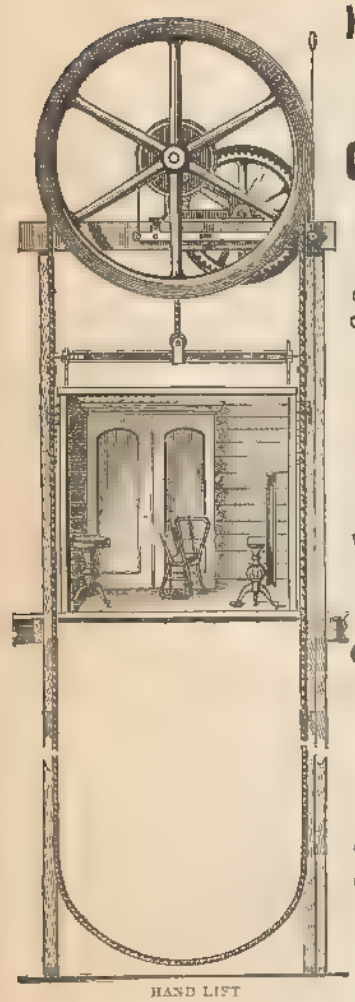
LIFT MAKERS.



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HAND ✻ POWER ✻ LIFTS
FOR
WAREHOUSES.

COAL AND DINNER LIFTS
FOR
PRIVATE HOUSES, HOTELS, &c.

Invalid & Food Lifts
FOR
HOSPITALS.

WAREHOUSE CRANES.

POWER ✻ LIFTS.

Driven by Belt from Shafting, or by Gas or Steam Engine direct.

IRON DOORS.

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SYDNEY—Australian Waygood Elevator Co., Ltd., 39 & 40, Hunter Street.

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LONDON: 35, Queen Victoria Street, E.C. MANCHESTER: Deansgate. SYDNEY: Hay Street.
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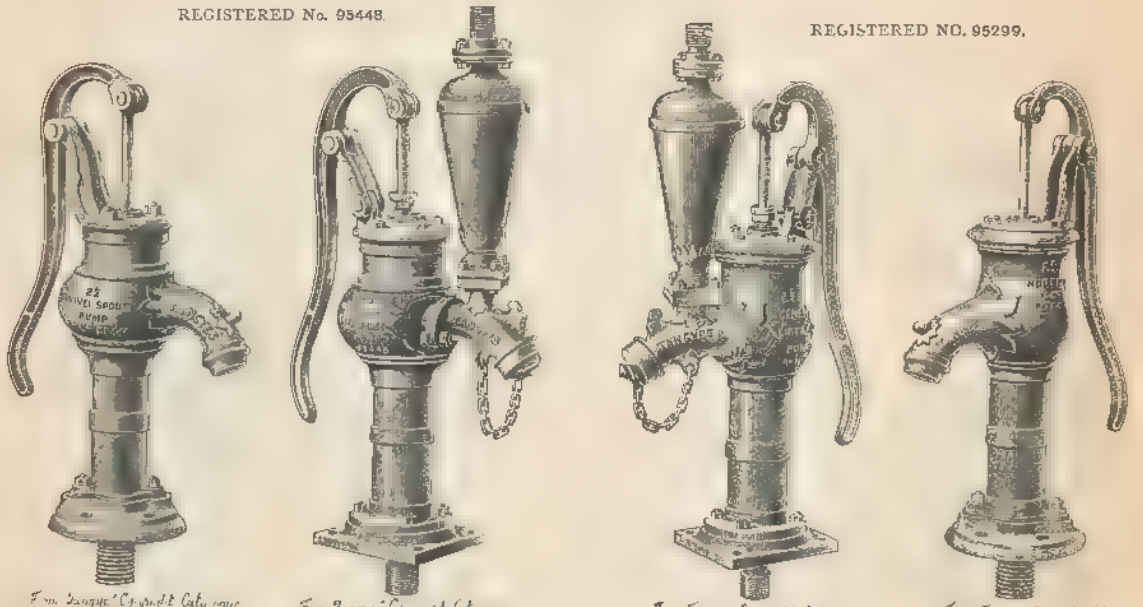
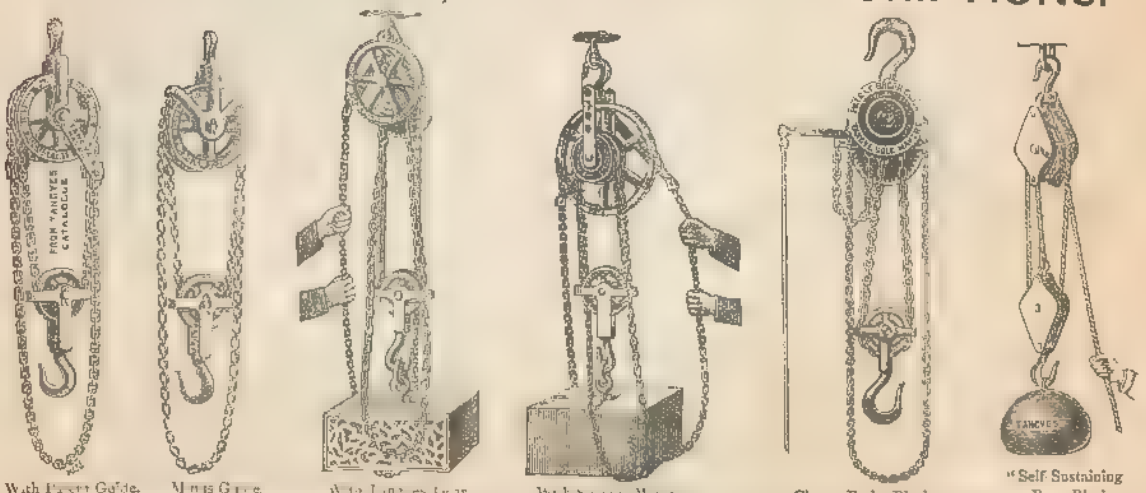
REGISTERED No. 95448. REGISTERED NO. 95299.



Swivel Spout Pump. Swivel Spout Lift and Force Pump. House Pump.

The above Illustrations are taken from photos of four of the new series of Hand Pumps being introduced by Tangyes Limited to replace the old and ugly style of House Pump in general use. They combine whatever is useful in the latter with gracefulness of design, and the price remains the same. In the Swivel Spout Pump the spout is readily pulled round to any angle desired.

LIFTING BLOCKS, &c., OF ALL DESCRIPTIONS.



Cherry Brake Block. "Self Sustaining Rope Block.

MAKERS OF STEAM ENGINES, BOILERS, PUMPS CRANES, &C.; HYDRAULIC PRESSES, CRANES, PUMPS, JACKS, PUNCHES, SHEARS, &C SCREW JACKS, RAIL BENDERS, JIM CROWS, STEAM VALVES & COCKS, RATCHET BRACES, STOCKS & DIES, &C., &C.

QUOTATIONS ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

D -ENGINEERING AND FIREPROOF CONSTRUCTION.

SUTTON & ASH,

SNOW HILL, BIRMINGHAM. *Telegraphic Address:* "ELF BIRMINGHAM."

ROLLED IRON JOISTS,

FLITCH PLATES,

SASH, CASEMENT, & STEP PROTECTING IRON,
BONDING HOOPS, &c.

GALVANIZED, CORRUGATED, AND FLAT SHEETS.

Large Stocks of all Kinds of Rolled Iron and Steel.

ORDERS PROMPTLY EXECUTED.

MANLOVE, ALLIOTT & Co., LTD.,

Engineers,

Telegraphic Address "MANLOVE, NOTTINGHAM"

NOTTINGHAM, LONDON, GLASGOW, MANCHESTER.

MAKERS OF HIGH-CLASS

STEAM LAUNDRY MACHINERY,

Lyon's Patent Steam Disinfector, Machinery and Apparatus for the Treatment of Town's Refuse,

LICENSED MAKERS of the "CYCLE" GAS ENGINE (ATKINSON'S PATENT)

Engines, Pumps, Steam Boilers, Shafting, and all kinds of General Engineering Work.

WEYMAN & COMPANY, LD.,

ESTABLISHED 1812

CHURCH ACRE IRON WORKS, GUILDFORD.

IMPROVED SEWAGE MACHINERY,

FILTER PRESSES, PUMPS, ACCUMULATORS, &c.,

(UNDER DRAKE'S NEW PATENTS

Being Improvements upon the Machinery designed by Mr Drake.

Disinfecting Ovens, Drying Stoves, Ornamental Iron & Brass Work, Wrought Iron Casements, &c.

ARCHITECTS' DESIGNS WORKED TO.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

W. H. LINDSAY & CO.,

Paddington Iron Works, 14, South Wharf, & 15 & 19, North Wharf, Paddington, W.,
Telephone No 7,074 and Sandymount Foundry, Llanelly, South Wales. *Telegraphic Address: "TROUGHING, London"*

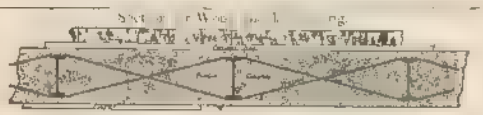
PATENT TRUSSED FIREPROOF FLOORS

Laid with LINDSAY'S PATENT PUMICE CONCRETE.

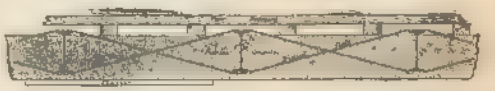
This is the Strongest, Lightest, and Cheapest Method of fireproofing yet introduced. and is suitable for Hotels, Residential Chambers, Model Dwellings, &c.

Details of PATENT PUMICE CONCRETE FIREPROOF FLOORING *of Steel or Iron Joists, interlaced with Trussed Rods, all Ironwork being entirely secured and protected from fire*

THESE FLOORS ARE MADE IN ALL STRENGTHS FOR LOADS FROM 1 CWT. TO 20 CWT. PER FOOT SUPERFICIAL, AND ARE THOROUGHLY RELIABLE



Section for Bounced Floor



ADVANTAGES OF THE SYSTEM ARE AS FOLLOWS:—

Section through Girde

All Girders and Joists are entirely embedded in the Concrete, and removed from the action of the Fire. It is almost impossible to [illegible] place struck [illegible] through [illegible] easily mended. [illegible] any [illegible] afterwards at small expense.

The ceilings are level, and form a splendid key for [illegible] no firring out or lathing, as other systems.

PUMICE CONCRETE [illegible] per cent. lighter than [illegible] Concrete [illegible] [illegible] per [illegible] [illegible] be forwarded [illegible] [illegible] are supported and [illegible] by [illegible] ready for [illegible] boarding.

DOMES AND SPIRES can also be [illegible] of great strength and lightness.

Large size Sheets of Details and particulars on application.

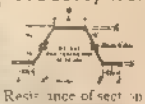
Section of Girder.

PATENT STEEL BRIDGE DECKING.

Adapted for FIREPROOF FLOORING for Warehouses, Public Buildings, Theatres, Hotels, &c.

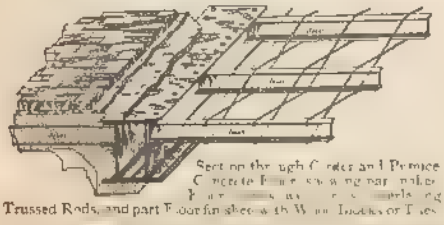
Resistance of section in inch tons 65.92.

This **STEEL FLOORING** is manufactured in twenty different strengths, varying from 4 ins. to 14 ins. in depth, and suitable for spans of from 15 ft. to 50 ft. clear. For Warehouses, Factories, Mansions, and Public Buildings [illegible] where great [illegible] all other systems [illegible] tie to the building. Secondly, no settlement of the walls will injure it or affect its strength. [illegible] gas, water, or air pipes can be laid within it, and counter-ceilings added when needed. Fourthly [illegible] lighter than ordinary arched floors. **Many thousand tons are already in use.**



Resistance of section [illegible]

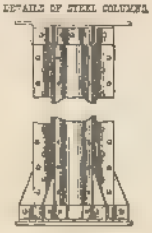
Section of Floor with Concrete Blocks under



Section through Girder and Pumice Concrete [illegible]

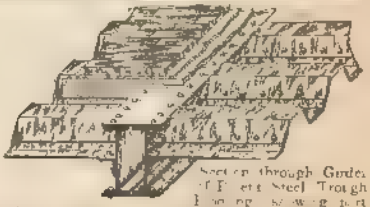
Trussed Rods, and part Floor finished with Wood Blocks or Tiles

DETAILS OF STEEL COLUMNS



ELEVATION

Section of Floor with ordinary Ceiling



Section through Girder [illegible] Steel Trough Flooring [illegible] part naked Flooring and part [illegible] filled in with Concrete and finished with Wood [illegible] or Mosaic

W. H. LINDSAY'S PATENT FIRE-RESISTING STEEL COLUMNS,

For Railways, Warehouses, and Public Buildings.

A Maximum

STRENGTH FOR STRENGTH these Columns are Cheaper than Cast Iron and, being constructed of Rolled Steel [illegible] consequently [illegible] are avoided. These Columns are rendered perfectly fire proof by filling the internal space with Concrete, [illegible] between the outer flanges and then fixing over which plaster. The [illegible] heads will prevent the bricks loosening or falling [illegible] chance of any dangerous heating, besides adding to their strength and rigidity. When thus treated the Columns can be either painted or decorated. These Columns can be made in lengths, without joints, to 50 feet, and have been made by covering plating, to the height of 104 feet and at that length were hoisted in one piece.

B Maximum

ESTIMATES AND FULL PARTICULARS ON APPLICATION.

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THE

COMPLETE CATALOGUE.

Section E.

FINISHING, DECORATION, FITTINGS, AND FURNITURE.

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FELTEN & GUILLEAUME'S

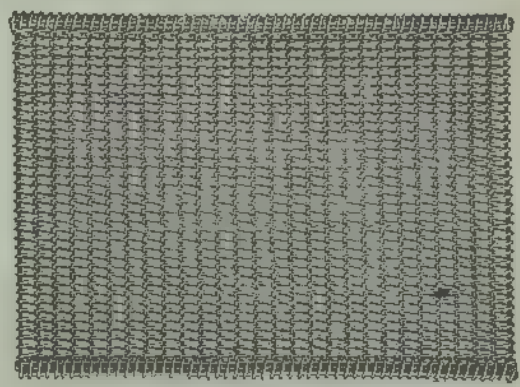
Telegraphic Address - "EREDENNIS, LONDON."

PATENT GALVANIZED

Telephone—No. 4350.

"SPIRALIUM" WIRE MAT.

FOR CLEANLINESS



AND DURABILITY.

MAT AND SCRAPER COMBINED. PRACTICALLY INDESTRUCTIBLE. THE BEST MAT YET INVENTED.

Indispensable for Gardens, Halls, Public Buildings, Hotels, Railway Carriages, Waiting Rooms, Tramcars, Steamboats, Conservatories, Institutions, Elevator Floors, and all purposes.

The only really serviceable self-cleaning Wire Mat. No shaking or beating required. Made from hard steel wire, well galvanized, so cannot rust. Cost 50 per cent. less than India Rubber Mats. Our Mats are reversible, and both sides can be used. The cleanest Mats ever invented. Never become saturated or soggy.

The Patent Galvanized "Spiralium" Wire Mats are constructed of a number of machine-made galvanized steel wire spirals (hence the name "Spiralium") woven and interlocked together. To render them strong and rigid, each Mat is surrounded by an iron frame.

Our Mats are protected by Patents, and purchasers are warned against buying worthless infringements of the "Spiralium."

Prices and sizes are as below, but any size can be made when specially ordered.

Size	18 by 12	20 by 14	24 by 12	20 by 16	24 by 14	24 by 16	inches.
	4/6	6/-	6/-	6/9	7/-	8/-	each.
Size	28 by 14	28 by 16	32 by 16	32 by 18	36 by 24	42 by 32	inches.
	8/3	9/6	10/9	12/-	18/-	28/-	each.

Special sizes made to order at 3s. per square foot.

DISCOUNT TO ARCHITECTS & THE TRADE QUOTED ON APPLICATION

Sole Agents—

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HODKINSON & CO., LIMITED,

LATE
HODKINSON & CLARKE,
HERBERT ROAD, SMALL HEATH.

CANADA WORKS,
BIRMINGHAM.

MANUFACTURERS AND CONTRACTORS FOR LIFTS, SHUTTERS, SCHOOL FURNITURE AND BLINDS OF ALL KINDS

HAND WAREHOUSE AND SINGLE DINNER LIFTS.

No	Well Holes	Cage	Height	Weight Raised	Price
					£ s. d.
1	3′ 6″ × 2′ 7″	3′ 0″ × 2′ 4″	30″	3 cwt.	26 10 0
2	4′ 0″ × 3′ 4″	3′ 6″ × 3′ 2″	35″	5 cwt.	33 0 0
1	1′ 11″ × 1′ 0″	1′ 4″ × 1′ 6″	25″	28 lbs.	8 8 0
2	2′ 3″ × 2′ 0	1′ 8″ × 1′ 9	25	28 lbs.	10 10 0
3	2′ 7″ × 2′ 0″	2′ 0″ × 1′ 9″	25″	56 lbs.	12 12 0
4	3′ 0″ × 2′ 6″	2′ 6″ × 2′ 3″	25″	112 lbs	16 16 0

WITH UPRIGHTS, GEARED HAULING AND CAGE WHEELS AND ROPES. HAND BREAK AND CAGE, AND BALANCE WEIGHT CAPABLE OF EXACT ADJUSTMENT

FIXING AND CASINGS FOR LIFTS AS PER ESTIMATE EXTRA

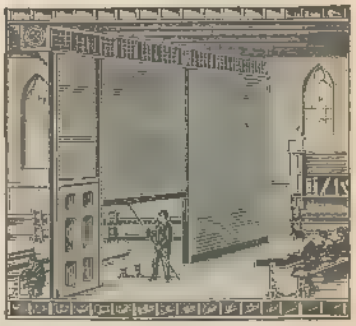
REVOLVING SHUTTERS FOR SHOPFRONTS

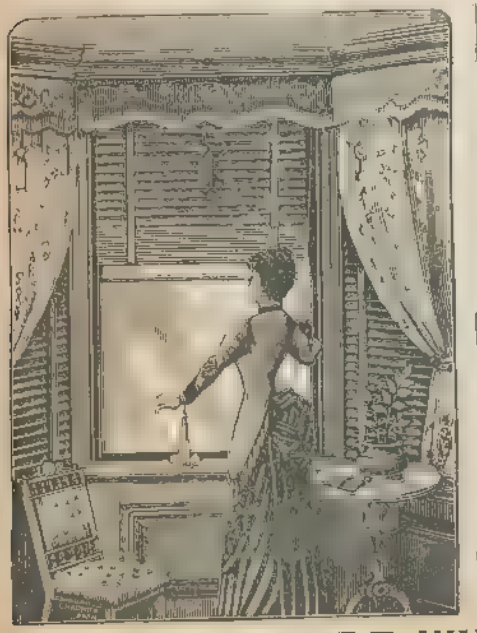
PRICES SELF COILING, Wood from 1 8, Steel from 2 6, Curvilinear Iron Lath, from 3 6 per Sq. ft

REVOLVING SHUTTER PARTITIONS.

FOR THE DIVISION OF SCHOOLS, COLLEGES, &c.

RETAINS all the advantages of the LARGE ROOM for Meetings, Examinations, &c., and can be cleared away in three minutes, leaving unobstructed space.





PRICE.

From 2/9 per Square ft.

Fixed Complete, ready for Varnishing, with Cornice, Door, Movable Pillasters and Fasteners.

"THE WINDOW BLIND OF THE PERIOD,"

OR

Patent Metallic Venetian,

LIGHT, DURABLE, ELEGANT.

Does not occupy half the space of a Wood Blind.

Beautifully Enamelled, and will not chip or blister. When dirty can be restored equal to new by washing in soap and water.

The edges of the laths and cord holes are folded over so that the tapes and cords can not be cut.

PRICES.

METALLIC BLINDS	...	from 9d. per sq. ft.
WOOD BLINDS	... ...	„ 8d. „

All Blinds under 14 ft. charged as 14 ft

Complete PRICE LIST on application.

OUTSIDE & INSIDE WINDOW BLINDS OF ALL KINDS.

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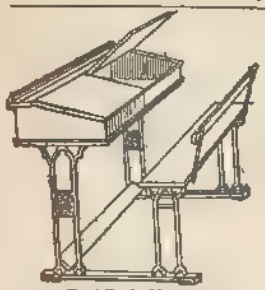
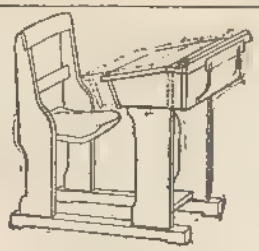
SCHOOL, COLLEGE, AND CHURCH FURNISHERS,

370, STRAND, LONDON, W.C.

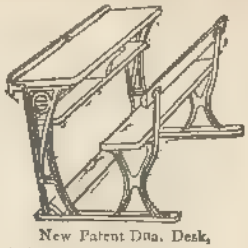
MANUFACTURERS OF EVERY DESCRIPTION OF SCHOOL FURNITURE.



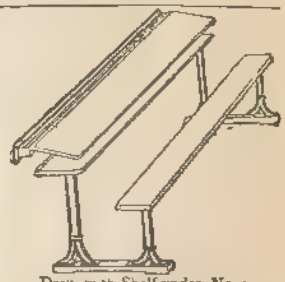
Dual Desk, No. 28.
Price—Deal, 28/-, Pitch Pine, 30/-.



"Louise" Single Desk, No. 267.
Deal, 20/-, Pitch Pine, 21/-
Larger, 22/- and 23/-

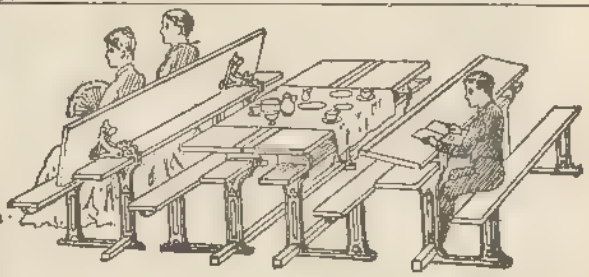


New Patent Dual Desk,
"The Victor," making Flat Table or Sloping Desk,
Pitch Pine, 20/-

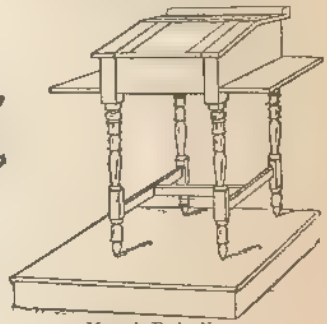


Desk, with Shelf under No. 23.
6 ft. long, Deal, 23/ Pitch Pine, 25/-
9 " " 29/9; " 32/9

Bookcase, No. 94.
Price—Deal 84/-; Pitch Pine, 0/-.

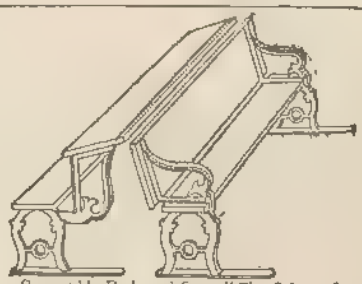


Convertible Desk, "The Phœnix," combining School Desk, Flat Table, and Backed Seat.
6 ft. long, Deal, 26/9, Pitch Pine, 28/-
9 " " 32/8, " 34/6

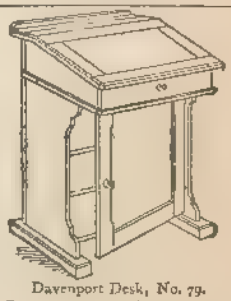


Master's Desk, No. 51.
Deal, 33/-; Pitch Pine, 36s.
Platform, 21/-

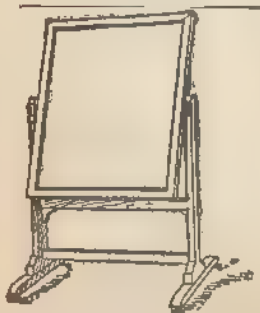
Pedestal Writing Table, No. 60.
Price—Deal, 90/-; Pitch Pine, 100/-.



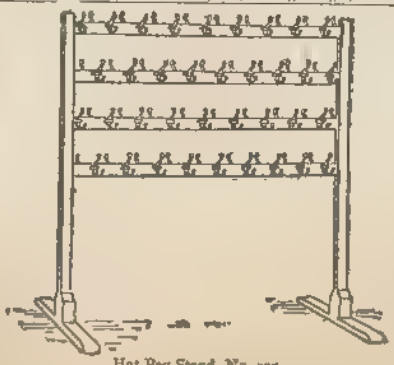
Convertible Desk and Seat, "The Osborne."
6 ft. long, Deal, 23/9; Pitch Pine, 25/-
9 " " 29/-, " 31/



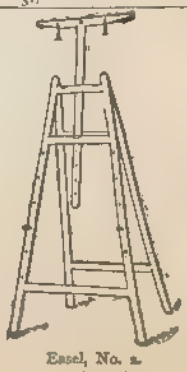
Davenport Desk, No. 79.
Deal, 32/-; Pitch Pine, 37/-



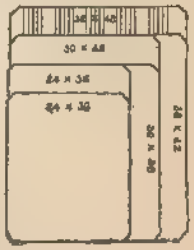
Slate, in Stand, No. 36,
With Patent Movements and Castors,
Price 27/-
Larger, 32/6 and 37/-



Hat Peg Stand, No. 205.
Price 28/- If with Pegs on one side only, 23/-



Easel, No. 2.
Price 10/-



Blackboards,
From 4/- to 8/6
Ruled for Music,
1/- and 1/6 extra.

All the above made in various sizes and woods. Prices on receipt of particulars.

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Complete Illustrated Catalogues post-free on application.

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CHURCH, MISSION HALL, & SCHOOL FURNISHERS,

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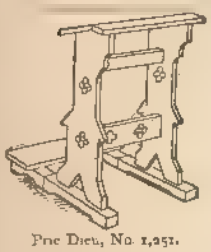
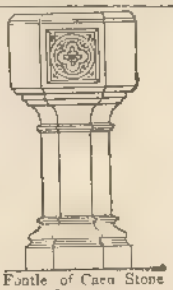
MANUFACTURERS OF EVERY DESCRIPTION OF CHURCH FURNITURE.



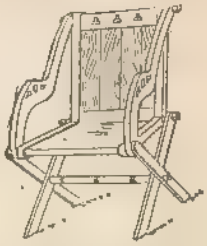
Prie Dieu, No. 1,251.
Price Pitch Pine, 18/-
Oak, 21/-

Hymn Board, No. 1,635 Pitch Pine, 14/-
Oak, 16/6, with figures complete.

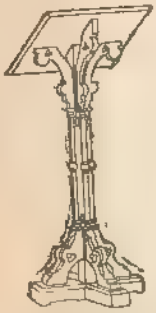


Fontle of Caen Stone
Price 120.-

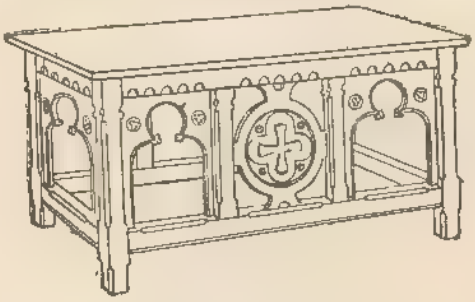
Alms Box, No. 1,608.
Pitch Pine, 6/-
Oak, 7/-



Glastonbury Chair, No 1,125
Pitch Pine, 25/-; Oak 32.-

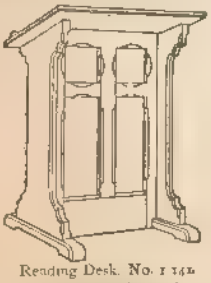


Lectern, No. 1 151.
Price Pitch Pine, 55 -, Oak. 70/-

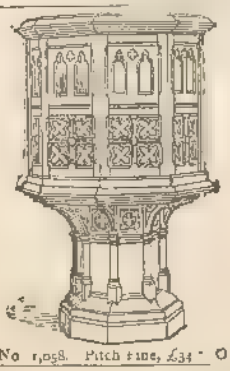


Altar Table, No. 1,913.
Pitch Pine, £7 15s.; Oak, £11.

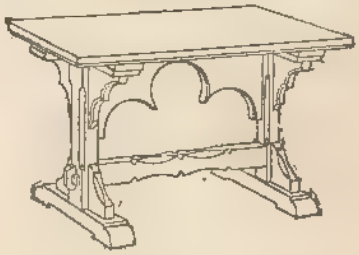
Eagle Lecterns in Brass or Wood
Prices on application



Reading Desk. No. 1 141
Price Pitch Pine, 37/-;
Oak, 47 -
Larger, 42/- and 55/-

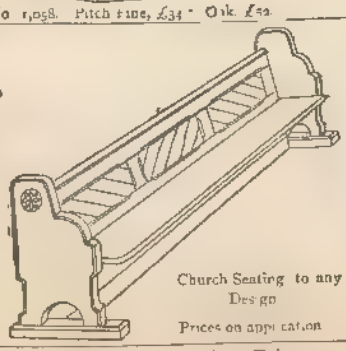


Pulpit, No 1,058. Pitch Pine, £34 - Oak. £52

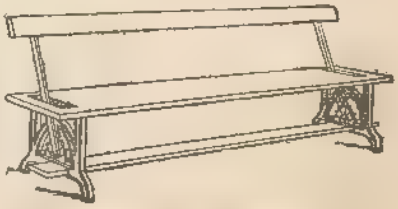


Vestry Table, No. 1,013.
Pitch Pine, 52/-; Oak, 80/-

Mission Hall Seat, No. 108.
6 ft long, Deal, 12/6; Pitch Pine, 13/6
9 " " 15/6, " 17/-



Church Seating to any Design
Prices on application



Reversible Seat for Sunday Schools, No. 120.
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9 " " 20/-; " 21/6

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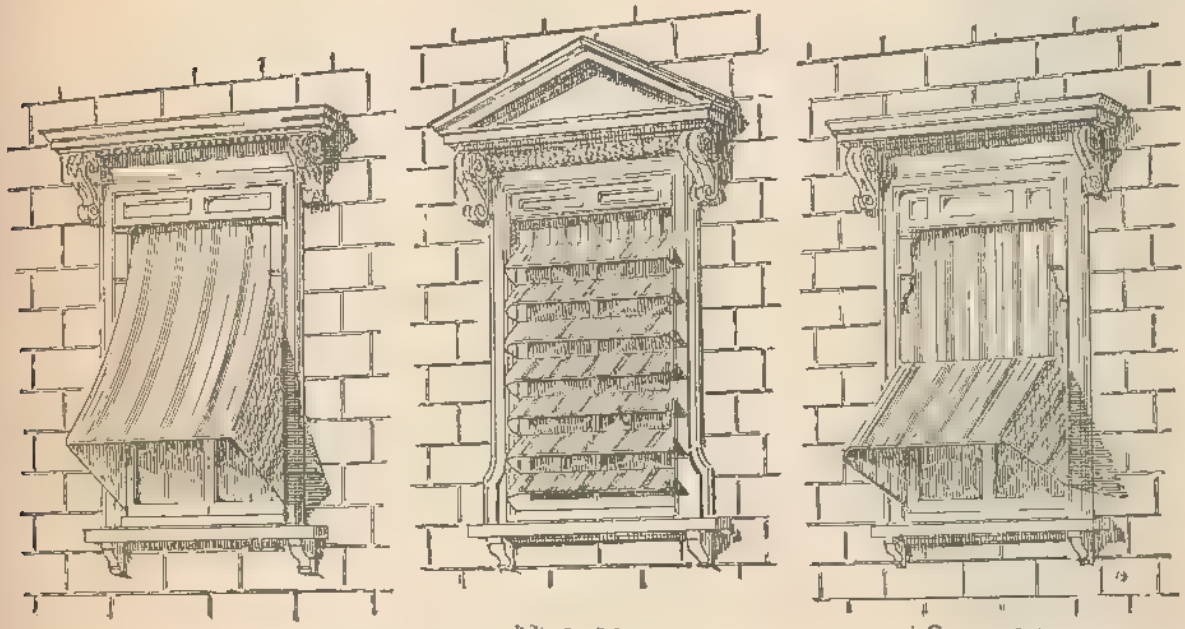

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"Oriental" (for Circular Headed Windows) ..	2/10 to 3/0
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"Florentine"	2/3 ,, 2/5
"Outside Venetians"	2/-
Jalousies, or Shutter Blinds (hinged)	3/
,, ,, (sliding)	4/-

All Outside Blinds under 20ft. sup. charged as 20ft. sup

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To fix between reveals of window	... ...	1/-	1/2
To fix on face of wall	... ...	1/1	1/3

Socket Hooks 3/6 per pair extra.

Small Blinds charged as 20 square feet each.

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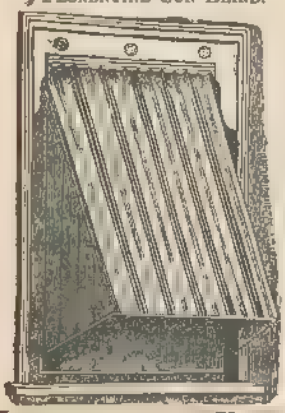

FLORENTINE SUN BLIND.

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	Per Square Foot.	Blue Barnsley.	Fancy Ticks.
To fix between reveals of window...	... ..	2 -	2 2
To fix on face of wall	... ...	2/1	2/3
New cloth to old fittings... ...	... ...	10d.	1/-
Cleaning, new cords, etc... ...	... ...	6½d.	

Oriental ditto for circular-headed windows 9d. per square foot extra.

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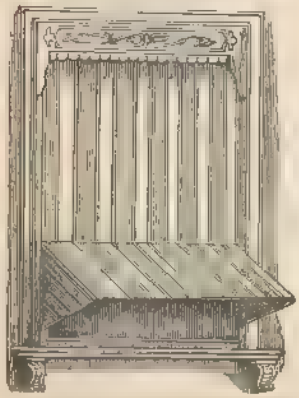

SPANISH SUN BLIND.

In Ornamental Cases (Best Pine) Painted, etc., complete.

	Per Square Foot.	Blue Barnsley.	Fancy Ticks.
To fix between reveals of window...	... ...	2/4	2/6
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Improved Spanish, without side gussets, and fixed with brass grooving, 3d. per square foot extra.

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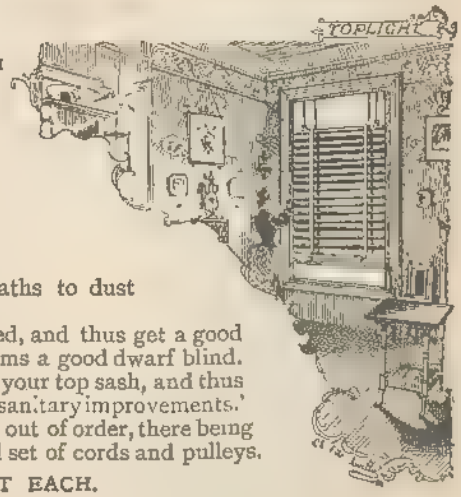


1st Quality, 8½d. per Square foot. 2nd Quality, 7d.

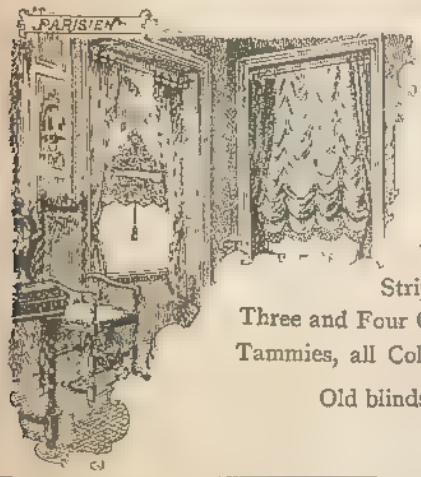
Patent Top-light **2/6** 2 Cord each Blind extra.

" " **3/9** 3 " " "

ADVANTAGES.

1. Ease with which a servant can lower the whole of the laths to dust or wash, thus obviating the use of a long step ladder.
2. Lower the Blind from the top when more light is required, and thus get a good TOP-LIGHT and still be screened from view, for when lowered it forms a good dwarf blind.
3. Lower your Blind, say, a couple of feet from the top, lower your top sash, and thus get a better ventilation than was possible before. 'These are good sanitary improvements.'
4. No complicated springs or mechanical arrangements to get out of order, there being nothing extra to an ordinary Venetian Blind except an additional set of cords and pulleys.

SMALL BLINDS CHARGED AS 16 FEET EACH.



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Three and Four Coloured Art Prints	4¾d.	6d.	8½d.
Tammies, all Colours	7¼d.	8½d.	10½d.

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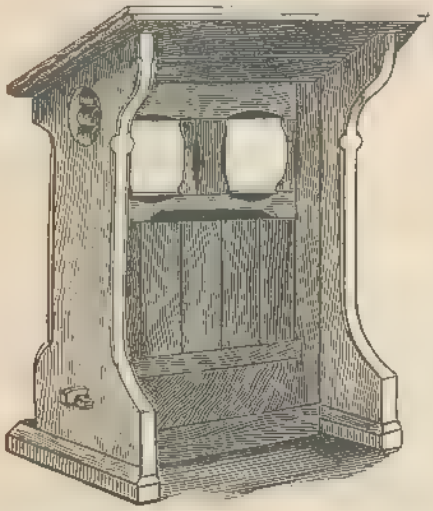
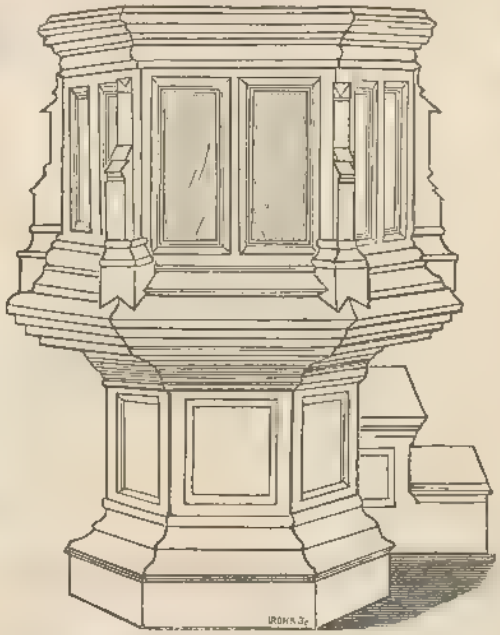
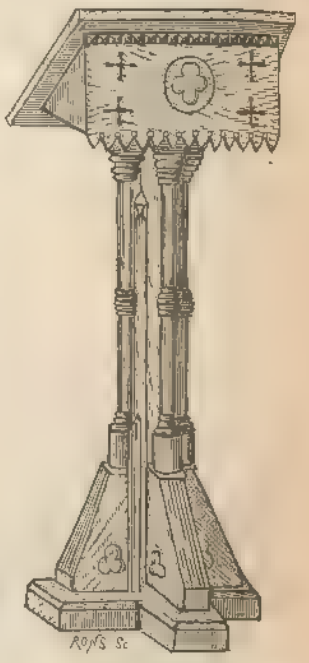


DESIGN OF PULPIT.





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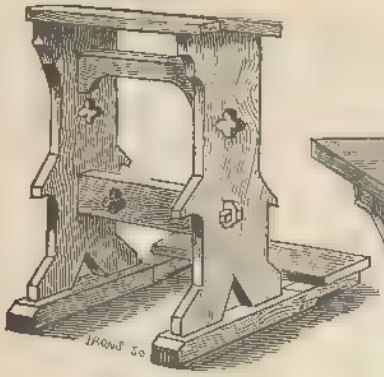
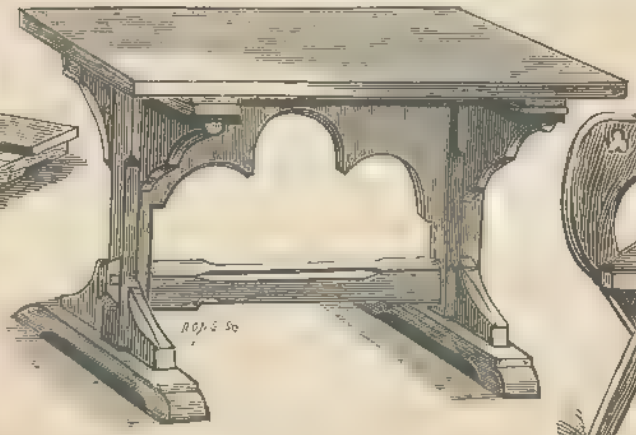
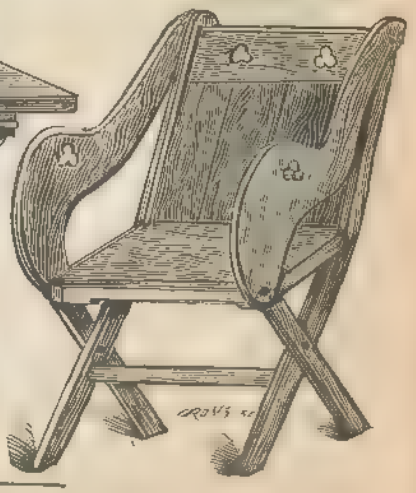


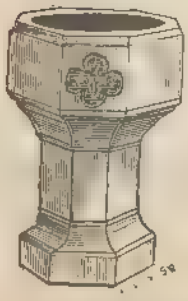
VESTRY TABLE.



GLASTONBURY CHAIR.



CARVED FONT.



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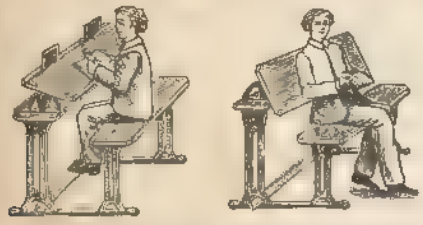
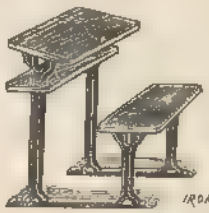


CHEAP FIXED DESK.



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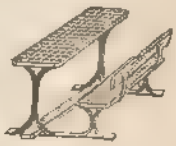
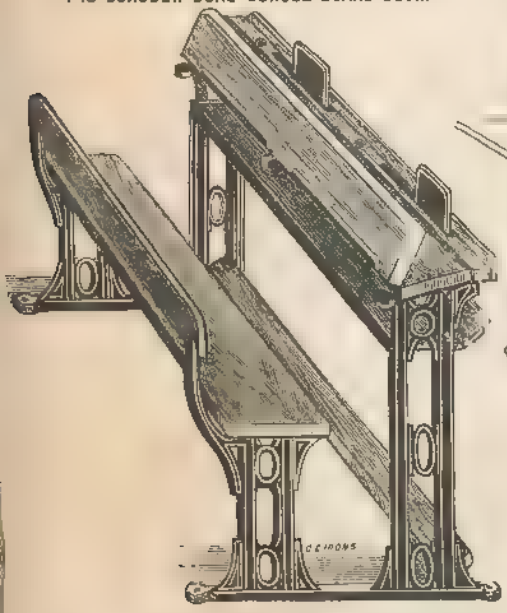
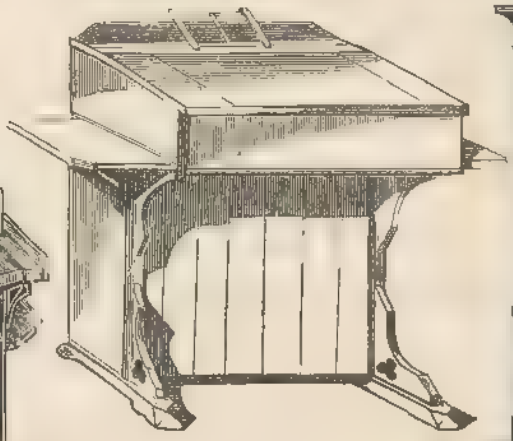


THE BOROUGH DUAL SCHOOL BOARD DESK.



TEACHER'S DESK AND CUPBOARD.



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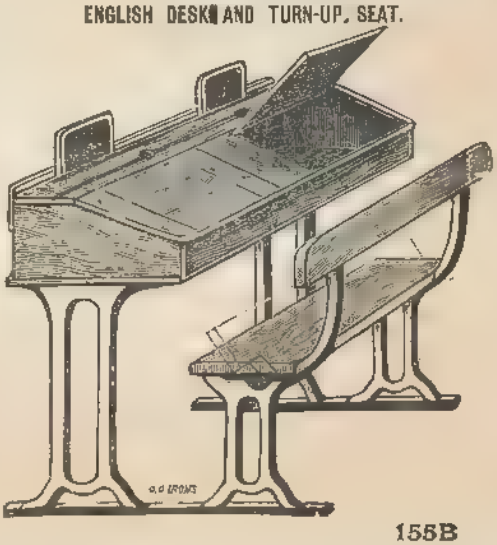
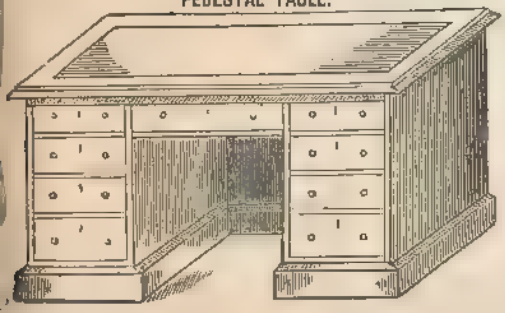


PEDESTAL TABLE.



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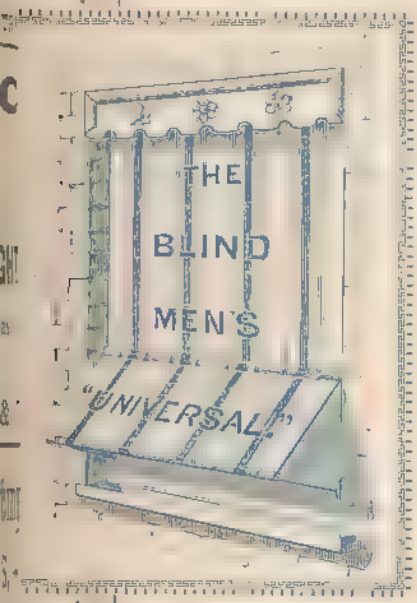

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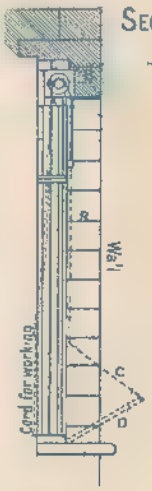

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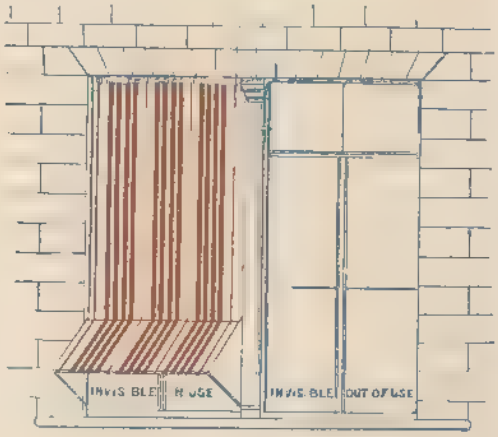

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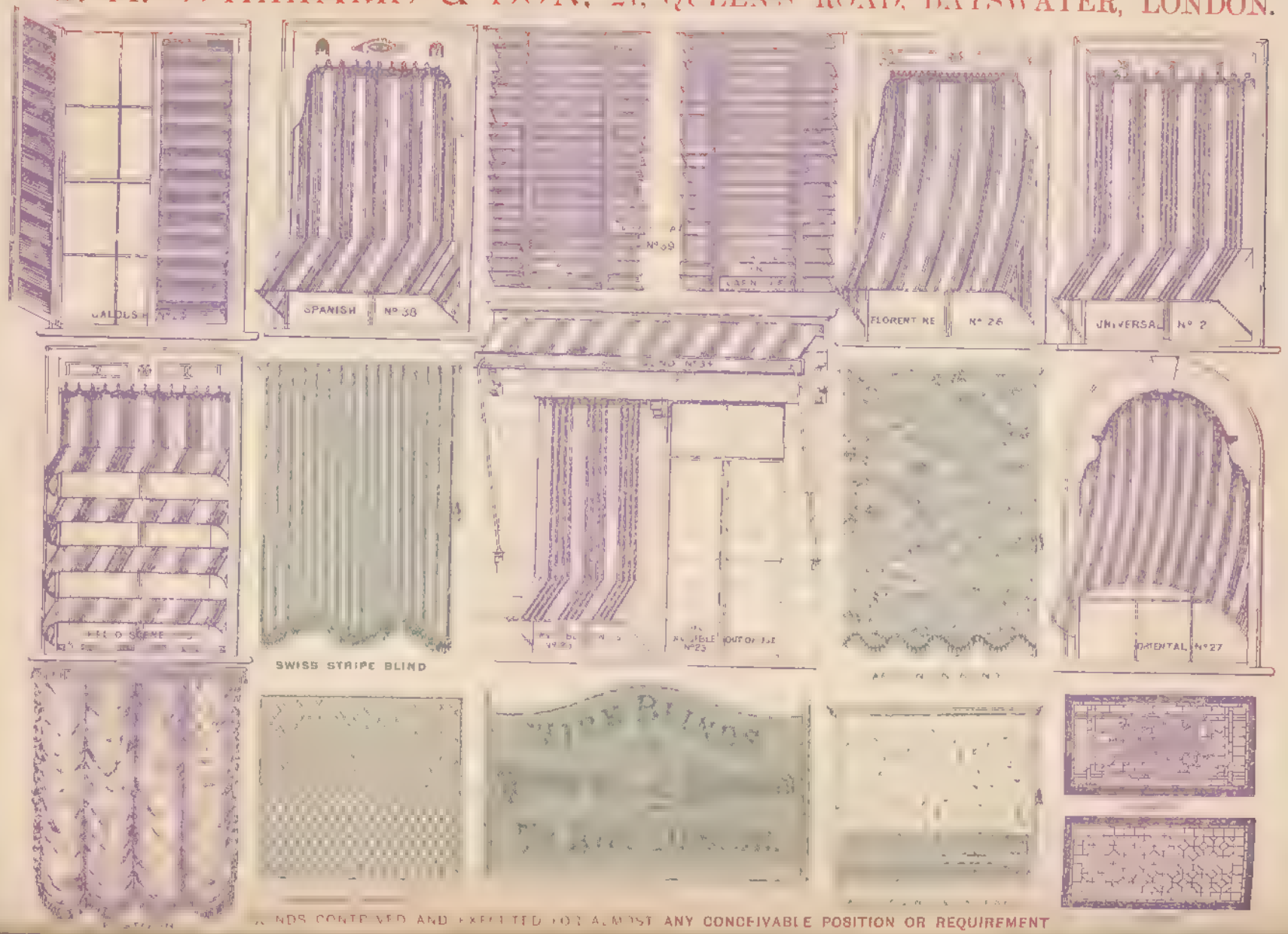

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FIRMS REPRESENTED IN THIS SECTION.

	PAGE		PAGE		PAGE
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EVANS, C. & CO.	161, 162, 163, 164, 165, 166, 167, 168	HAYWARD BROTHERS, & ECKSTEIN	170, 170A	LAZENBY, GEO.	170

NOTES REFERRING TO GOODS IN THIS SECTION.

Notes continued on page 160.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NOTES REFERRING TO GOODS IN THIS SECTION.

ESTABLISHED 1832.

BAILLIE & LUTWYCHE,

ARTISTS IN STAINED GLASS, & LEADED LIGHT MANUFACTURERS

187, WARDOUR STREET, LONDON, W.

Patentees and Sole Manufacturers of the

PATENT VITREOUS TRANSLUCID ENAMELLING ON GLASS.

BY this important Invention the design is visible on both sides at same time, and is equally beautiful and effective by either day or artificial light. The design may be in one or more colours, on any description of glass, and in squares (at present) up to 5 feet 8 inches by 2 feet 10 inches. It is unequalled for Door Panels, Blinds, Screens, Ceilings, Facias, Wall Panels, Windows, &c.; in fact, for any purpose to which decorated Glass can be applied.

For Design Sheet and Prices see "Architects' Compendium," 1889. Samples on application at Show Rooms, where inspection is invited.

BAILLIE & LUTWYCHE, 187, Wardour Street, London, W.

FOUR GOLD MEDALS AWARDED.

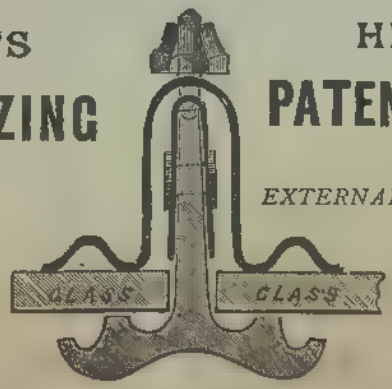
HELLIWELL'S

PATENT GLAZING

WITHOUT PUTTY.

9, Victoria Street,

LONDON, S.W.



HELLIWELL'S

PATENT ZINC ROOFING

WITHOUT EXTERNAL FASTENINGS OR SOLDER.

WORKS:

Brighouse, Yorkshire.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

ON FOLLOWING PAGES ARE ILLUSTRATED

A few Designs of

ECCLESIASTICAL AND DOMESTIC STAINED GLASS,

Brilliant Cut Glass, Ceramic and Venetian Glass Mosaic,
Underglaze Tile Painting,
Raised Tiling and Decorative Faïence.

BEING EXAMPLES OF WORK EXECUTED BY

Charles Evans & Co.,

Designers and Workers in every description of
High Class Interior Decorations.

20, WARWICK STREET, REGENT STREET,

LONDON, W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Ecclesiastical Stained Glass.

DESIGNS REGISTERED.

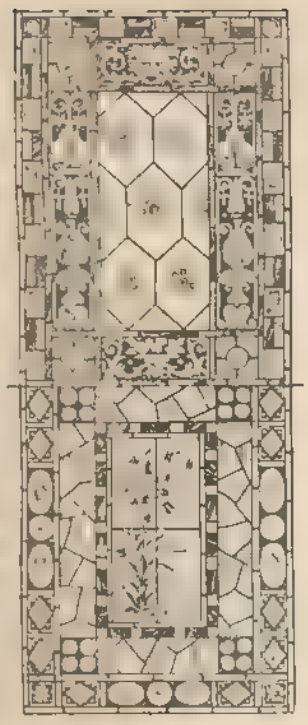
Scale ½ inch to 1 foot.

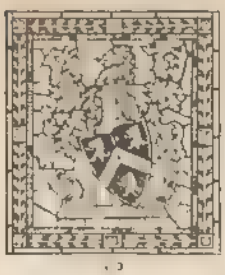
FOR PRICES SEE PAGE 168.

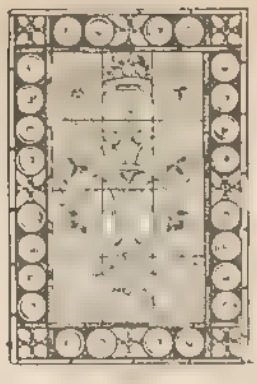
CHARLES EVANS & CO., 20, WARWICK STREET, REGENT STREET, LONDON, W.

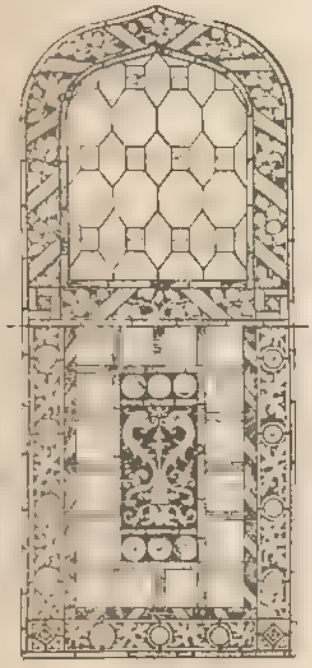
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

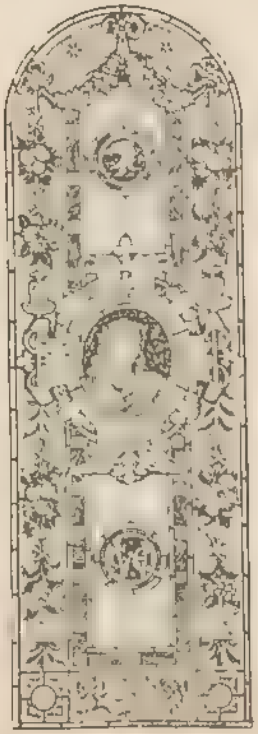
Domestic Stained Glass.

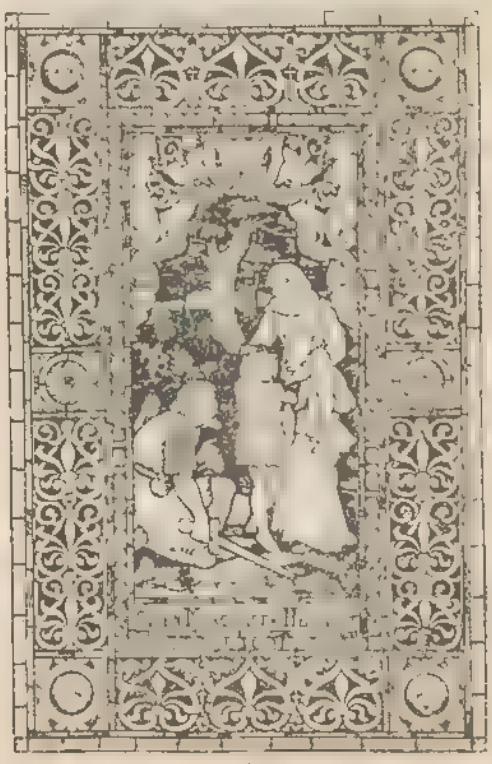












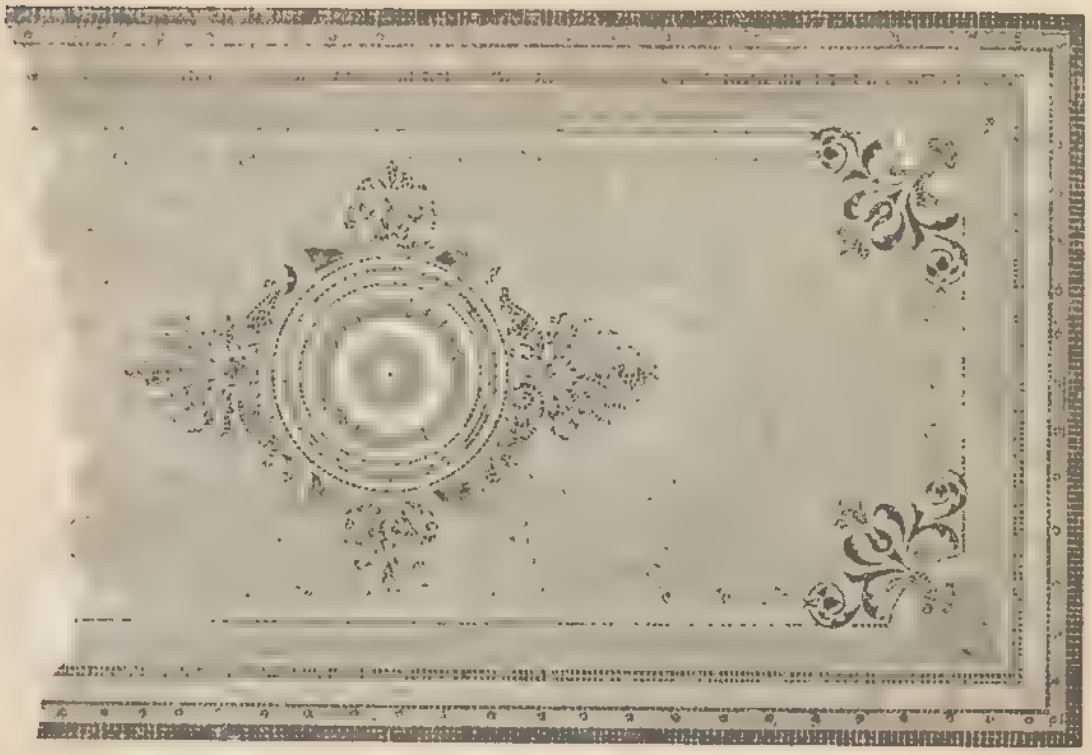
DESIGNS REGISTERED. *Scale ½ inch to 1 foot.* FOR PRICES SEE PAGE 168

CHARLES EVANS & CO., 20, WARWICK STREET, REGENT STREET, LONDON, W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

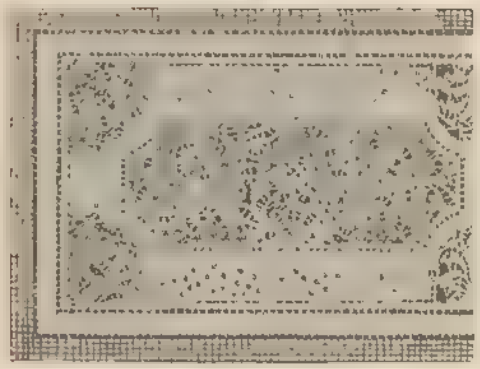
Ceramic and Venetian Glass Mosaic.

Ceramic Mosaic.



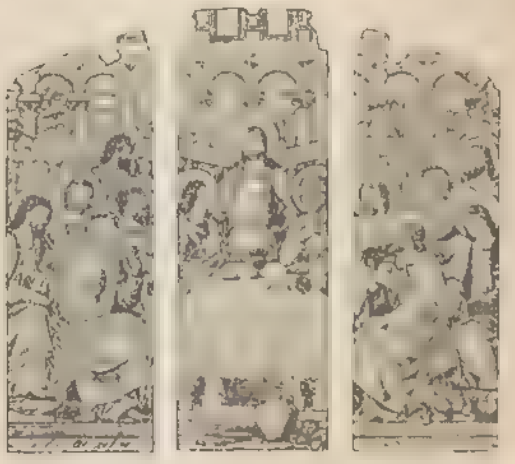
N° 1

Ceramic Mosaic

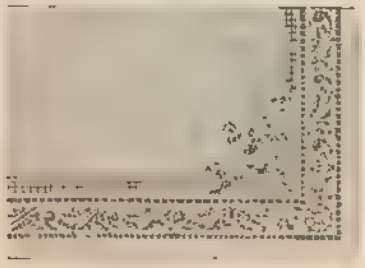


N°

Venetian Glass Mosaic Reredos Panels.



Ceramic Mosaic



N

Venetian Glass Mosaic.

DESIGNS REGISTERED, *Scale ½ in to 1 foot.* FOR PRICES SEE PAGE 168.

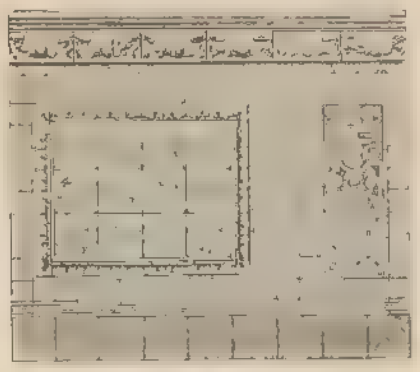
CHARLES EVANS & CO., 20, WARWICK STREET, REGENT STREET, LONDON, W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Painted and Raised Tiling and Decorative Faïence.

Architectural Faïence.

Dado in Raised and Enamelled Tiling.



No. 1

Painted Tile Picture Panel (underglazed process) With Raised and Enamelled Tile Dado and surroundings.

Architectural and Decorative Faïence

DESIGNS REGISTERED

Scale ½ in. to 1 foot (does not apply to Capitals).

FOR PRICES SEE PAGE 188.

CHARLES EVANS & CO., 20, WARWICK STREET, REGENT STREET, LONDON, W

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Brilliant Cut Glass.

DESIGNS REGISTERED. *Scale ¾ in. to 1 foot.* FOR PRICES SEE PAGE 168

CHARLES EVANS & CO., 20, WARWICK STREET, REGENT STREET, LONDON, W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Brilliant Cut Glass.

DESIGNS REGISTERED

Scale ¾ in. to 1 foot.

FOR PRICES SEE PAGE 188.

CHARLES EVANS & CO., 20, WARWICK STREET, REGENT STREET, LONDON, W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

PRICE LISTS of CHARLES EVANS & CO.'S SPECIALITIES.

STAINED GLASS.

THE accompanying designs on pages 162 and 163, [illegible] illustrating a few of the numerous treatments of Stained [illegible] Glass which [illegible] to secure a [illegible] correct idea of the probable cost of [illegible] the quotations below will be found as moderate, consistently with good material and workmanship, as it is possible to make them. They are for windows containing not less than 10 square feet. The same designs introduced in a window of less dimensions would necessitate the glass and general detail being smaller, and so entail extra labour.

For the preparation of an exact estimate it is necessary that a rough sketch of shape of window should be furnished, [illegible] sizes of each opening marked thereon; the subjects to be illustrated being noted, and an idea of the desired class of work [illegible] being given.

In ordering windows and supplying dimensions, it is of the utmost importance that the exact sizes should be stated. This can be done by cutting a piece of stout brown paper into the head of the opening (sight size), giving the height from sill to extreme point of head, and also the width of light.

Prices of Painted Windows Executed in the Styles Illustrated on pages 162 and 163, are as follows:—

ECCLESIASTICAL.

		s.	d.
No. 1	per sq. ft.	50	0
„ 2 and 7	„	42	0
„ 3 (Exhibited, Royal Academy, 1885)	„	35	0
„ 4	„	15	6
„ 5	„	12	0
„ 6 ..	„	18	0
„ 8	„	30	0

DOMESTIC.

		s.	d.
Nos. 1, 2 and 3	per sq. ft.	5	6
„ 4 and 8	„	7	9
„ 5 „ 7	„	16	6
„ 6 „ 9	„	25	0
„ 10 „ 11	„	40	0

Prices exclusive of cost of carriage, fixing, and wireguards.

BRILLIANT CUT GLASS.

[illegible] recommended for Hotels, Restaurants, Taverns, Public Halls, Offices, and all [illegible] buildings [illegible] packing, and carriage.

SHEET C.—DESIGNS E.	On Obscured 1-in. Plate.	On Obscured 32-oz. Sheet.
	Per square foot.	Per square foot.
209, 215, 220, 224, 228, 231, 233, 236, 238, 239, 241, 242, 244 .	7/9	6/-
208, 210, 214, 219, 221, 225, 227, 232, 234, 235, 243	9/-	7/3

SHEET C.—DESIGNS E.	On Obscured 1-in. Plate.	On Obscured 32-oz. Sheet.
	Per square foot	Per square foot.
207, 211, 212, 216, 217, 218, 222, 223, 237 .. .	10 6	8 9
213, 229, 240	11/6	9/9
226, 230	12/9	10/-

Prices for Beveling, per foot run, ½", 9d.; ¾", 1/-; 1", 1/2.

The designs can be widened, lengthened, and otherwise adapted to any size and shape desired. All sizes under 12 inches taken as one foot in measuring quantities.

Special designs and estimates prepared to clients' instructions. A sketch of window must accompany each order. The smooth side of glass to be glazed outside.

CERAMIC MOSAIC FOR PAVEMENTS.

This, the most permanent of all Floor Mosaics, can be supplied to any design, colouring, and treatment. Coloured designs will be submitted with estimates (to include laying if necessary) upon receipt of particulars. An approximate idea may be obtained from the floors shown on page 164, which are [illegible] Tesserae in the ordinary colourings [illegible] per square yard, as follows: No. 1, 45/-; No. 2, 38/-; No. 3, 32/6.

VENETIAN GLASS MOSAIC.

This inimitable mural decoration can be executed in gold and colours from £2 to £8 per square foot for ornament, and from £5 to £15 per square foot for subjects according to elaboration of detail, quality, and size of figures. Subject as "Lord's Supper," on page 164, which is adapted for Reredoses, etc., would cost £9 per square foot, as figure St. Matthew, £5 per square foot.

UNDERGLAZED PAINTED TILES AND RAISED AND ENAMELLED TILING.

Special coloured designs and estimates will be submitted upon application for every description of Tiling. The illustrated subject on page 165 is taken from one of a large number of Painted Tile Pictures erected by MESSRS. CHARLES EVANS & CO. in the Lobby Entrances of many Hotels and Taverns in London and elsewhere, being painted in underglaze by [illegible] Tiles and Faience surroundings, would cost [illegible] £120 [illegible] Design No. 1, page 165, would be 38/6 per square yard, varying somewhat according to colours introduced.

DECORATIVE FAÏENCE.

Special coloured designs and estimates will be furnished for Architectural and Decorative Faïence, upon receipt of particulars. A few designs are illustrated on page 165.

Painted Windows, Art Mosaics of all descriptions, Under and Overglaze Painted Tile Picture Panels, Mural Paintings, Monumental Brasses, Carvings, and other high-class decorations from the Studio of MESSRS. CHARLES EVANS & CO., may be inspected in numerous sacred and secular edifices throughout Great Britain and the British Colonies.

The success of their many works, the continued patronage of the most eminent authorities on Ecclesiastical and Domestic Decorative Art, and the fact that all commissions are executed under the personal supervision of MR. CHARLES EVANS, may fairly be regarded as guarantees of the artistic quality of their productions.

CHARLES EVANS & CO., 20, WARWICK STREET, REGENT STREET, LONDON, W.

Fargues & Co., Printers, London, W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address "Adopted," London.

GROVER & CO., LIMITED,

ENGINEERS, MILLWRIGHTS, AND IRONFOUNDERS,

Britannia Works, Wharf Road, City Road, London, N.

SIMPLEX LEAD GLAZING.

AS SUPPLIED TO

THE COMMISSIONERS OF HER MAJESTY'S WORKS AND PUBLIC BUILDINGS.
HIS GRACE THE DUKE OF SUTHERLAND, K.G. HIS GRACE THE DUKE OF WESTMINSTER, K.G.
SIR BACHE CUNARD, BART. SIR HENRY BESSEMER. GOVERNMENT BOTANICAL GARDENS, MADRAS.
MESSRS. HUNTLEY & PALMER, OF READING. MESSRS. J. & J. COLMAN, OF NORWICH, ETC., ETC.

OVER 500,000 SUPERFICIAL FEET IN USE ON 1,500 STRUCTURES,

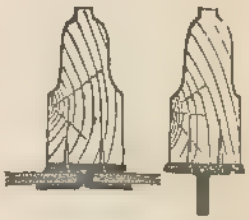
FOR ROOFING CONSERVATORIES, SKYLIGHTS, Etc.—Showing Sash-bars with Grooves to Carry down the Moisture from Condensation.

TRADE SIMPLEX GLAZING MARK.

SECTION OF PATENT STRIP.

For 21 oz. Glass.

(*Full size.*)



FOR WALLS, WINDOWS, Etc.

NO SPECIAL CONTRACT REQUIRED FOR ITS ADOPTION.

The simplest and most economical system for **Roof and Vertical Work** in **Conservatories**, Vineries, Hot-Houses, Garden Frames **Workshops**, Manufactories, Mills, Weaving Sheds, Laundries, Swimming Baths, Stables, Agricultural Buildings, **Temporary Huts**, &c., and for **Skylights anywhere.**

This System claims to afford the following advantages:—

1. It effects a saving of 90 per cent of the usual maintenance and repairs outside, **as nothing but glass and lead is exposed to the atmosphere.**
2. Repairs of accidental breakages can be readily effected, as there are **no fastenings or screws to remove at any time.**
3. No putty is used, and no breakages arise from changes of temperature or vibration from any cause.
4. The work is **Air-tight** so necessary for forcing and fumigating purposes), Water-tight, Wind-tight, and indestructible.
5. **There is no noise due to vibration from gales of wind.**
6. It is equally **applicable to Sloping Roofs and Vertical Walls** or "Siding."
7. **The lead strips**, which are the special feature of this System, **can be fitted by any local firm or workmen.** They are fastened to the woodwork with ¾ inch copper nails, the angles of the Strips are payed with thick white lead paint before being dressed down on the glass, which is effected with a small wooden glazing tool (supplied with the strips)

As a general rule 21 oz. glass, 15 in. wide, is recommended for Horticultural Work; for Skylights, ¼ in. rough rolled plate.

OUR PRESENT TRADE PRICES FOR THE LEAD STRIPS ARE:—

3d. per ft. run (subject), if for 21 oz. Sheet Glass 4d per ft run (subject), if for ¼-in. Plate Glass.

(OTHER SIZES IN PROPORTION).

DELIVERED AT LONDON STATION. CARRIAGE FORWARD.

Cases are charged in Invoice at Cost Price. Two thirds of such charge will be allowed or refunded on Empties duly received carriage paid.

Special Quotations for Quantities of 1,000 feet and upwards, to Specifications.

WHEN ORDERING PLEASE STATE—

1. **The LENGTHS of Strips required** (These are supplied up to 17 feet 6 inches if **necessary**)
2. **The NUMBER of Strips to each length.**
3. **The THICKNESS of Glass proposed to be used and whether to be lapped.**

N.B. A wooden tool for dressing down the lead is always sent with the Strips free of charge, and, unless countermanded, Wrought Copper Nails for fastening the Strips, will be supplied; PRINTED INSTRUCTIONS are also sent, which should be carefully *read*, as they contain some hints which it is advisable to know, and act upon.

SOLE MANUFACTURERS OF THE PATENTED LEAD STRIPS. ANY QUANTITY SUPPLIED.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HAYWARD BROTHERS & ECKSTEIN,

Telegraphic Address "Hayward Brothers, London."

PATENT PAVEMENT LIGHT WORKS,

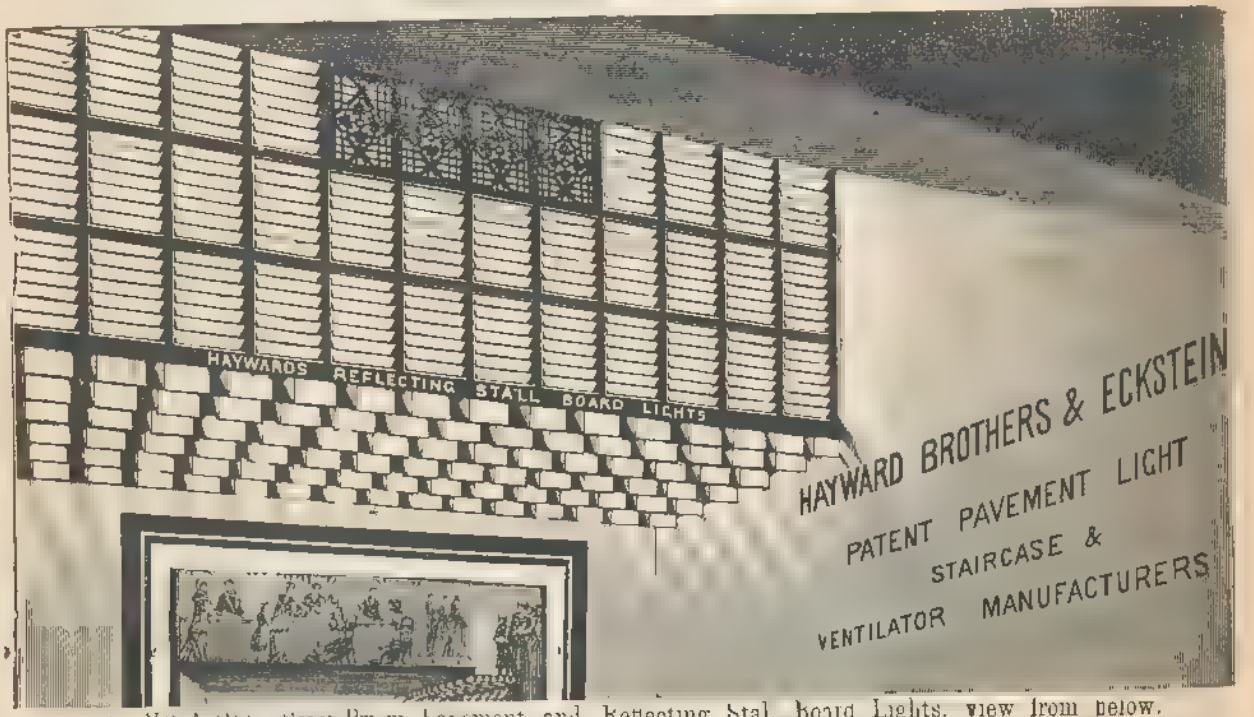
UNION STREET, BOROUGH, LONDON, S.E.

TEN MEDALS AWARDED.

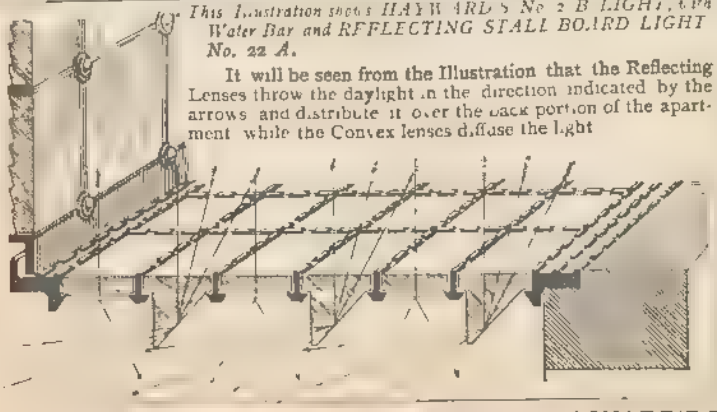
HAYWARD'S PATENT "SEMI-PRISM" PAVEMENT LIGHTS

For Lighting Basements, Cellars, and Underground Apartments,

Are the BEST for directing daylight into Basements, and at the same time giving a good vertical and distributing light.



HAYWARD'S Semi-Prism Pavement and Reflecting Stall Board Lights, view from below.



This Illustration shows HAYWARD'S No. 2 B LIGHT, with Water Bar and REFLECTING STALL BOARD LIGHT No. 22 A.

It will be seen from the Illustration that the Reflecting Lenses throw the daylight in the direction indicated by the arrows and distribute it over the back portion of the apartment while the Convex lenses diffuse the light

APPROXIMATE PRICES per foot super measured over all—"Stock sizes" about 15 per cent. less.

	Per Foot Super.
HAYWARD'S (Sec B) Patent Semi Prism Lights	8/6
HAYWARD'S (Sec K) Patent 'Union Lens Lights	7/6
HAYWARD'S (Sec F) Checkered Lens Lights	6/6
HAYWARD'S (Sec LL) Button Lens Lights	5/6
HAYWARD'S (Sec CC) Convex Lens Lights	8/0
HAYWARD'S (Sec D) Rough Plate Lights	4/6

Parts of inches in length or depth are charged as full inches. Irregular shapes are charged as square, and all curved lines extra.

Use Stock Sizes, that is, Frames always kept on hand, and which can be glazed in two or three days on receipt of order

SPECIAL QUOTATIONS FOR QUANTITIES AND ESTIMATES ON APPLICATION.

Also Prices for Mosaic, Granite Face, and Tile Lights, Roadway Lights, Opening Flaps, and Vertical Stall Board Lights.

ARCHITECTS should clearly and distinctly specify "HAYWARD'S Patent Pavement Lights," *mentioning the number of pattern, and initial letter of Section of glazing.*

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

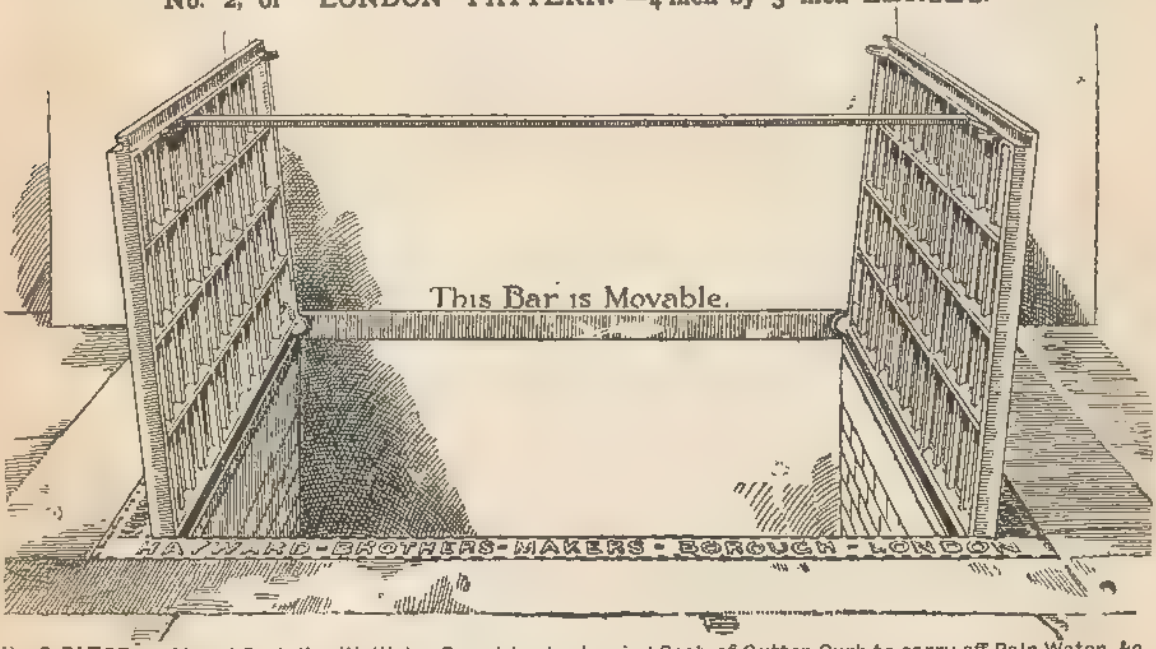
HAYWARD BROTHERS AND ECKSTEIN,

Telegraphic Address—"Hayward Brothers, London" PATENT PAVEMENT LIGHT WORKS,

187, 189, 191 & 193, UNION STREET, BOROUGH, LONDON, S.E.

Hayward's Improved Glazed Cellar Flaps with Guttered Curb Frames.

No. 2, or "LONDON PATTERN."—4 inch by 3 inch LENSES.



No. 2 PATTERN Glazed Sect. K, with Water Bar at back showing Sect. of Gutter Curb to carry off Rain Water, &c.
This illustration shows a Pair of Flaps in a Guttered Curb Frame on three sides with movable bearing bar for clearance of bulky packages if required. A hole is drilled and tapped in lowest front corner to attach pipe to drain.
These Flaps are usually glazed, Section K C or D, to reduce the weight as compared with Hayward's No. 2 B Patent "Semi-Prism" Lights.

In order to reduce the cost of Cellar Flaps, we now keep regular "Stock Sizes" always on hand, as in the following Net Size List, which we can supply at a little over price of fixed lights, with an extra for fitting in Guttered Curb Frame as required.

SIZES ALWAYS IN STOCK.

Net Size of Flaps when laid together in Pairs—without Frame or Guttered Curb.

For over all length add 5½ inches—and over all depth add 2½ inches to net sizes under.

Lenses Back to Front.	ft. in. ft. in.	ft. in. ft. in.	ft. in. ft. in.	ft. in. ft. in.	ft. in. ft. in.
6	3 6¼ × 1 11	3 11 × 1 11	4 3½ × 1 11	4 8 × 1 11	5 0¾ × 1 11
7	3 6¼ × 2 2½	3 11 × 2 2½	4 3½ × 2 2½	4 8 × 2 2½	5 0¾ × 2 2½
8	3 6¼ × 2 6	3 11 × 2 6	4 3½ × 2 6	4 8 × 2 6	5 0¾ × 2 6
9	3 6¼ × 2 9½	3 11 × 2 9½	4 3½ × 2 9½	4 8 × 2 9½	5 0¾ × 2 9½
10	3 6¼ × 3 1	3 11 × 3 1	4 3½ × 3 1	4 8 × 3 1	5 0¾ × 3 1
11	3 6¼ × 3 4½	3 11 × 3 4½	4 3½ × 3 4½	4 8 × 3 4½	5 0¾ × 3 4½
12	3 6¼ × 3 1	3 11 × 3 8	4 3½ × 3 8	4 8 × 3 8	5 0¾ × 3 8
	4 & 4	4 & 5	5 & 5	5 & 6	6 & 6

Net Size of Flaps

Net Size of Flaps.

ESTIMATES ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NOTES REFERRING TO GOODS IN THIS SECTION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE

COMPLETE CATALOGUE.

Section G.

HOT WATER, WARMING, LIGHTING AND VENTILATING.

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NOTES REFERRING TO GOODS IN THIS SECTION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

G—HOT WATER, WARMING, LIGHTING, AND VENTILATING.

Telegrams—
'SYPHON STOVES,'
LONDON

S. CLARK & CO.,

PATENTEES AND MAKERS,

"SYPHON WORKS," PARK STREET, ISLINGTON, LONDON, N.

CLARK'S PATENT

THE "SYPHON" GAS HEATING STOVES,

FOR USE WITHOUT A FLUE.

NO SMOKE, NO SMELL, NO DIRT OR TROUBLE, NO DANGER. ALL SULPHUROUS VAPOURS ARE CONDENSED INSIDE THE STOVES AND PASSED OFF AS A LIQUID INTO THE TRAY BENEATH.

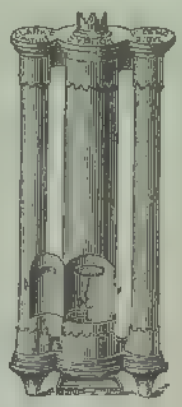
THE MOST ECONOMICAL and EFFICIENT SYSTEM for HEATING PUBLIC HALLS, SCHOOLS, HOSPITAL WARDS, CORRIDORS, THEATRES, OFFICES, and all Public Buildings and Private Residences.

The following are the stock sizes and prices, complete, with a tray and extra glass chimney.

No 5.

No. 2.

No. 1



No. 3.

No. 10.

No 1.—For Heating and Lighting. Single Pillar Stove. Stands 30 in. high, consumes 6 feet of gas per hour when full on. Suitable for Offices, Landings Passages, or small Conservatory. Price £7 18s.

No. 2.—For Heating and Lighting. Stands 40 in. high, Argand Burner, consumes 8 feet of gas per hour when full on. Suitable for Hall, Conservatory, Shop or Bedroom. Price £3 15s. With polished Copper Side Columns 12s extra.

No. 8. For Heating and Lighting. Stands 33 in. high, Argand Burner, consumes 6 feet of gas per hour when full on. Price £2 15s. If with polished Copper Side Columns, 10s extra.

No. 5.—For Heating and Lighting. Stands 42 in. high, Argand Burner, consumes 10 feet of gas per hour when full on. Suitable for Entrance Halls, Conservatories, large Rooms or Shops. Price £5; with polished Copper Side Columns, 15s. extra.

No. 8.—For Heating only. Stands 40 in. high, Bunsen Burner, consumes 9 feet of gas per hour. Suitable for Conservatory or rooms where heat only is required. Price £3 10s.

No. 6.—Similar Stove, only larger. Stands 42 in. high, and of greater heating powers, consumes 12 feet of gas per hour. Price £4 10s. With polished Copper Side Columns, 15s. extra.

No. 9. For Heating only. Stands 33 in. high. Bunsen Burner, consumes 6 feet of gas per hour. Suitable for Conservatory or small room. Price £2 15s.

No. 10.—For Heating and Lighting. This is a very powerful Stove, having two Argand Burners. Stands 50 in. high, consumes 16 feet of gas per hour when full on. Suitable for large Entrance Halls, Churches, Hospitals, Wards, Schoolrooms, Greenhouses, &c., &c. Price with ornamental Iron Top, £7 10s.; if Marbled Slate Top, 15s extra. polished Copper Side Columns, 15s. extra.

MR D'OYLY CARTE, *of the Savoy Theatre*, writing of these Stoves, on August 7th, 1886 says:—"I used your Hygienic Gas Heating Stoves in this Theatre all last winter, and found them in every way most satisfactory. I think I must have had ten or a dozen of them in various parts of the Theatre, and in the very cold weather we had last winter they succeeded in warming the corridors, etc., admirably. Two of them were used to heat the Business Offices of the Theatre, and they fulfilled this object capitally, while apparently in no way injuring the air in the Offices—a most important consideration.

ILLUSTRATED LISTS AND FULL PARTICULARS ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

MEDALS 1865. AWARDED 1881.

HEATING APPARATUS

Inventor, Patentee, Manufacturer.

J. ATTWOOD.

Telegrams "ATTWOODS, STOURBRIDGE."

HOT-WATER ENGINEER AND IRONFOUNDER, STOURBRIDGE.

The ONLY ATTWOOD in the Trade

THE BEST JOINT.

OVER A MILLION SOLD.

SADDLE, TRENTHAM, and other

BOILERS.

HOT-WATER PIPES.

COILS, VALVES, &c. — FOR **HEATING** CHURCHES, SCHOOLS, MANSIONS, PUBLIC BUILDINGS, GREENHOUSES, &c., &c — COIL CASES, &c.

THE BEST COIL.

THOUSANDS IN USE

HOT-WATER GOODS.

CATALOGUES FREE.

WM. BAILY & SONS,

71, Gracechurch Street, London, E.C.,

MANUFACTURING IRONMONGERS, GAS & HOT WATER ENGINEERS, ART METAL WORKERS.

Hot Water and Steam Heating and Ventilating Apparatus for ASYLUMS, PUBLIC BUILDINGS, and INSTITUTIONS, COLLEGES, SCHOOLS, CHURCHES, CONSERVATORIES and PRIVATE HOUSES.

HOT WATER SUPPLY. BOILERS. HEATERS. TANKS.

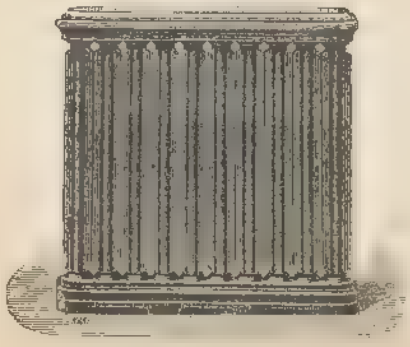
ARTISTIC GRATES.

DOG GRATES.

Slow Combustion and Hot Air Stoves.

GAS STOVES.

LOUVRE HEARTHS FOR SMOKY CHIMNEYS.



IMPROVED HOT WATER RADIATOR.

HOT WATER COILS.

STEAM COILS.

RADIATORS.

COIL CASES.

Floor Gratings.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

ESTABLISHED 1868.

HIGHEST AWARD SOUTH KENSINGTON, 1881.

Telegrams—"Heating, Liverpool," and "Heating, Birmingham."

OFFICES & WORKS—
Mill St., Liverpool.

BRANCH—
Ethel St., Birmingham

GIBBS' PATENT HOT WATER HEATING APPARATUS

FOR

PUBLIC BUILDINGS, CHURCHES, SCHOOLS, RAILWAY STATIONS, MANSIONS, DWELLINGS, GLASS-HOUSES, WAREHOUSES, SHOPS, OFFICES, DRYING ROOMS, POLICE CELLS, &c., &c., &c.

ESTIMATES AND PLANS GRATIS.

"RENTON GIBBS" PATENT FURNACE.

SMALL CONSUMPTION OF FUEL.

HEAT IS GOT UP QUICKLY.

CAN EASILY BE REGULATED.

THE ACME OF SIMPLICITY.

IS EASILY MANAGED.

IS PERFECTLY SAFE.

IS MOST EFFICIENT, ECONOMICAL, and DURABLE.

NO SULPHUR FUMES.

A FEW OF MANY TESTIMONIALS.

Acton Reynald, Shrewsbury, January, 1884.

SIR, I write to say that the PATENT FURNACE you fixed in my house is a great success, as is also the one you fixed in Moreton Corbet Church this month.

Your obedient Servant,
(Sir) V. M. CORBET (Bart.)

Mr. RENTON GIBBS, Liverpool.

Eccleston Hill, Chester, March, 1884.

SIR,—Your "Heating Apparatus," which you put up in my house last year, answers capitally.

Yours faithfully,
D. SCOTLAND (Lt.-Colonel).

Mr. RENTON GIBBS, Liverpool.

Vickers Corn Mills Sheffield January, 1884.

DEAR SIR,—The PATENT FURNACE you fixed to my offices works to my entire satisfaction.

I am, yours truly,
SAMUEL SMITH.

Mr. R. GIBBS, Liverpool.

33, Kelvin Grove, Princes Gate, Liverpool, Feb., 1883.

DEAR SIR,—I have much pleasure in testifying to the efficiency of the Apparatus you fixed here eighteen months ago, for heating portions of the house and small conservatory. I have never had the slightest trouble with it since your men left it, and with very little attention the heat can be regulated to a nicety.

Yours truly,
T. H. W. WALKER (Architect).

Mr. GIBBS, Mill-street.

RENTON GIBBS,
LIVERPOOL AND BIRMINGHAM.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

ESTABLISHED 1868.

RENTON GIBBS'

HEATING AND VENTILATING APPARATUS.

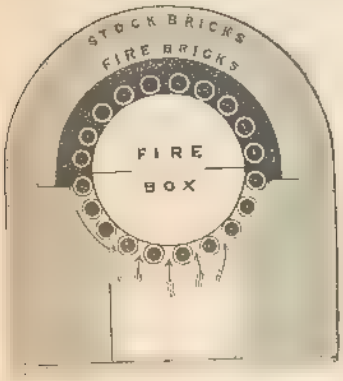
FOR BUILDINGS OF EVERY DESCRIPTION.

ESTIMATES FREE.

"RENTON GIBBS" PATENT BOILER.

THE ADVANTAGES OF THIS BOILER.

It has water fire Bars. Is the most perfect tubular type. The Acme of Simplicity, Safety, Efficiency, Economy, and Durability. Heat is got up quickly. Is easily managed.



LIST OF SOME OF THE PLACES WHERE THIS BOILER IS FIXED

The Right Hon. Earl of Strathmore, Streatlam Castle, Darlington
Eton Parish Church, Windsor
Sir E. Peel, Bryn-y-pys, Ruabon
Madame Adelina Patti, Craig-y-nos Castle, Swansea
Messrs. Marshall, Sons & Co., Limited (twelve boilers), Gainsborough
West End Laundry, Fulham, London
Easter Ross Union Poorhouse, Tain, Scotland
St. Mary's Convent, Drogheda, Ireland.
St. Malachys' Convent, Dundalk, Ireland
Parish Church, Ashbourne, Derbyshire.
St. Mary's Parish Church, Blackburn, Lancashire
High School, Middlesborough.
Sugar Refining Mills, Halifax, Nova Scotia
North Wales Counties Lunatic Asylum, Denbigh, North Wales, &c
Sherborne Road Board Schools, Birmingham.
&c., &c

A FEW OF MANY TESTIMONIES.

BRITANNIA IRON WORKS,
Gainsborough, Sept. 16th, 1882.

DEAR SIR,—In reply to yours of the 4th inst., Mr. Renton Gibbs has heated for us our offices, large mess-room, engine and machine stores, and brick drying sheds in a most satisfactory manner, and we can in every way speak highly of his heating apparatus.

We have six* of his "Patent Tubular Boilers" in work, with satisfactory results, and he has now some further work in hand for us.

We are,
Dear Sir,
Yours truly,
MARSHALL, SONS, & Co., Limited.

* There are now twelve at work.

BRYN-Y-PYS, RUABON, *Dec 6th, 1883*

DEAR SIR,—I have much pleasure in recommending your method of heating houses. The apparatus you fixed for me has worked well, and I shall soon apply to you for more piping, etc.

I am, yours faithfully,
(Sir) EDMUND PEEL

ASHBOURNE VICARAGE, DERBYSHIRE,
Sept. 16th, 1882.

DEAR SIR,—I have much pleasure in writing that, so far as we have tested your apparatus, it appears to be a marked success. Our church is exceptionally large, and yet it is effectually warmed in a very short space of time after the apparatus is set to work. I have recommended your system to friends in this neighbourhood, and shall be glad to hear that it has been accepted in the case you mention. I shall be happy to show any gentleman the apparatus if desired.

Believe me, yours faithfully,
FRANCIS JOURDAIN, M.A., Vicar of Ashbourne.

RENTON GIBBS,

LIVERPOOL AND BIRMINGHAM.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

RENTON GIBBS,

HEATING AND VENTILATING ENGINEER,

ST. JAMES' WORKS, MILL STREET, LIVERPOOL.

AND

ETHEL STREET, off NEW STREET, BIRMINGHAM.

TELEGRAMS: "Heating, Liverpool," and "Heating, Birmingham."

HOW TO CHOOSE A HEATING APPARATUS

THE first and most important step is to ascertain the name of a firm who have *the highest reputation for good work*, and do not be misled by minor firms who profess to have a knowledge of the business, and offer to do the work cheap; for most assuredly these professions, though often made in good faith, are not verified by experience, but on the contrary, for want of scientific knowledge and proper resources, the work they carry out proves a total failure, to the great annoyance and disappointment of their customers, who are often left without heat in the coldest season of the year.

Heating is a science which requires years of study, combined with practical experience, to ensure success, and in no other line of business do we hear of so many failures. All who intend fitting up their premises with a Heating Apparatus should therefore be chiefly guided by the reputation of a good firm, and not, as is so often the case, being ruled by the lowest tender, which is the worst policy to pursue.

RENTON GIBBS, who has devoted twenty-two years' study to the improvement and perfection of the SMALL PIPE SYSTEM OF WARMING, and who has no other business, can guarantee that all work placed in his hands shall be executed in the best possible manner, and to the satisfaction of all concerned.

OVER 1,600 APPARATUSES IN SUCCESSFUL OPERATION.

Plans, Estimates, and every information free on application.

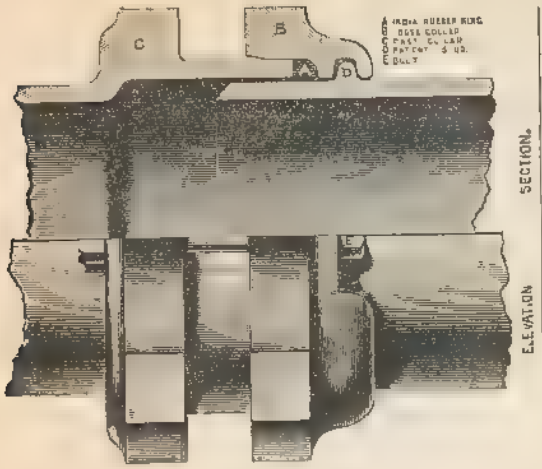
References given to the Principal London and Provincial Architects.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

FOSTER AND PEARSON,

Telegraphic Address—
PEARSON, Beeston, Notts.

BEESTON, NOTTS.



NEW PATENT PIPE JOINT

The spigot end of pipe has studs D. cast on which hold in groove of loose collar B, and so prevent the joint being forced apart under pressure—a point of great importance in heating dwelling-houses, &c.

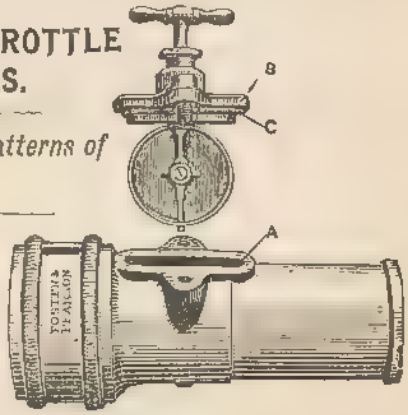
MAKERS OF ALL DESCRIPTIONS OF HOT WATER APPARATUS.

NEW PATENT PIPE JOINT,
Cannot give way under pressure.
EASILY FIXED. NEAT APPEARANCE.

PATENT THROTTLE VALVES.

Hundreds of Patterns of Valves.

22
FIRST PRIZES.

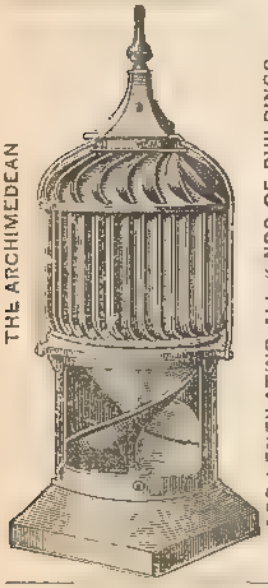


Established 1841.

Telegraphic Address -
'TRUNKS, BIRMINGHAM.'

ROBERT FOSTER & CO.,

40 to 52, MOSELEY STREET, BIRMINGHAM.



THE ARCHIMEDEAN
FOR VENTILATING ALL KINDS OF BUILDINGS

ARCHIMEDEAN CHIMNEY TOP
FOR CURING SMOKY CHIMNEYS

CHINN'S AUTOMATIC PATENT VENTILATOR
FOR VENTILATING ALL KINDS OF BUILDINGS

CHINN'S PATENT SOIL PIPE VENTILATOR.

SOLE MAKERS OF CHINN'S PATENT AUTOMATIC VENTILATORS.

Manufacturers of the Improved Revolving Archimedean Screw Ventilators, Travelling Trunks, Baths, Wood and Iron Coal Vases, Trays, Galvanized Goods,
AND ALL KINDS OF SHEET METAL WORK SUITABLE FOR HOME AND FOREIGN MARKETS.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HAYWARD BROTHERS & ECKSTEIN,

Telegraphic address "Hayward Brothers, London."

VENTILATOR MANUFACTURERS,

UNION STREET, BOROUGH, LONDON, S.E.

VENTILATION.

"The simple forms of Ventilation rest on the principle of an *outlet* for the warmed air, and an *inlet* for fresh air."

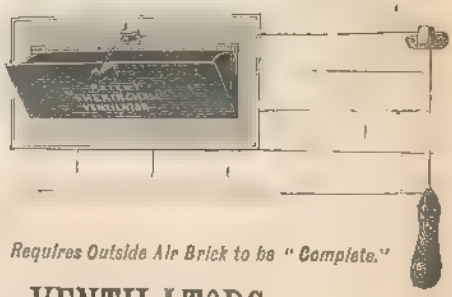
HAYWARD'S SHERINGHAM INLET VENTILATOR,

For the introduction of FRESH AIR through an External Wall without a Draught.

QUALITY OF VENTILATOR. *R. or L. Hand.*	Size of Box / Front.	A 9×3 ins. / 11½×5½.	C 9×6 ins. / 11×8½.	B 13½×6 ins. / 16×8½.	D* 15×10 ins. / 19×14.
No. 1 IRON—Plain		A 1 .. 4/0	C 1 .. 5/6	B 1 .. 7/0	D 1 .. 21/0
" 6 Japanned Bronze		A 6 .. 5/0	C 6 .. 6/6	B 6 .. 8/0	D 6 .. 25/0
" 5 GALVANIZED,		A 5 .. 5/6	C 5 .. 7/6	B 5 .. 9/6	D 5 .. 27/0

Including Pulley Weight and Cord.

* Extra Heavy for Public Buildings



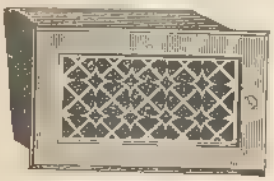
Requires Outside Air Brick to be "Complete."

IMPROVED MICA OUTLET VENTILATORS.

For the DISCHARGE of Heated and Vitiated Air from Rooms into the Smoke Flue.

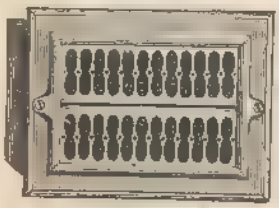
OVER 500,000 IN USE.

No 3, Front, 11×7 inches.



QUALITY.	Size of Front. / Size of Box	Ins. 11×5 / 9×3	Ins. 11×7 / 9×5¼	Ins. 11×9 / 9×7½	Ins. 11×11 / 9×9½	Ins. 16×11 / 13×9½
No. 1 Plain Iron ..		3 0	4 6	6 9	8 3	12 0
" 1 Japanned Bronze ..		3 9	5 3	7 9	9 9	13 6
" 1 " White and Gold		4/6	6/0	8/9	11 3	15/0
" 3 Brass Trellis Front..		5/3	7/9	10/6	13/6	18/9
" Brass Hit & Miss Fronts		..	15/0	18/9	24/9	34/6

Back, 11×7.



HAYWARD'S SILK-FLAP OUTLET VENTILATORS.

NOISELESS.

For Prevention of Down Draught in Air-Extracting Shafts.

	Size of Front / Size of Box.	11½×5½ in / 9×3.	11×8½ in / 9×6.	11×11½ in. / 9×9.	15½×11½ in. / 13½×9
Plain Iron ..		3/3	5/9	7/0	8/6
Japanned Bronze ..		3/9	6/9	8/6	10/6

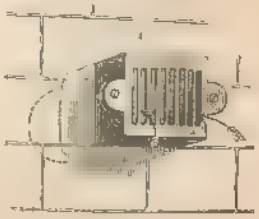
FRESH AIR MICA INLET VALVES.

IN GALVANIZED IRON.

For Ventilating Drains, by the Admission of a Current of Fresh Air.

For 3 inch Vertical Pipe, 8/0
" 4 " " 10/0

For 3 inch Horizontal Pipe, 7/0
" 4 " " 8/6



HAYWARD'S LOUVRE INLET & OUTLET VENTILATORS, HIT & MISS VENTILATORS, VERTICAL INLETS, or TOBIN'S TUBES, and all other kinds of Ventilators. Prices and particulars on application.

TEN MEDALS AWARDED.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HILDICK & HILDICK,

WALSALL TUBE WORKS, WALSALL.

MANUFACTURERS OF

WROUGHT IRON TUBES & FITTINGS

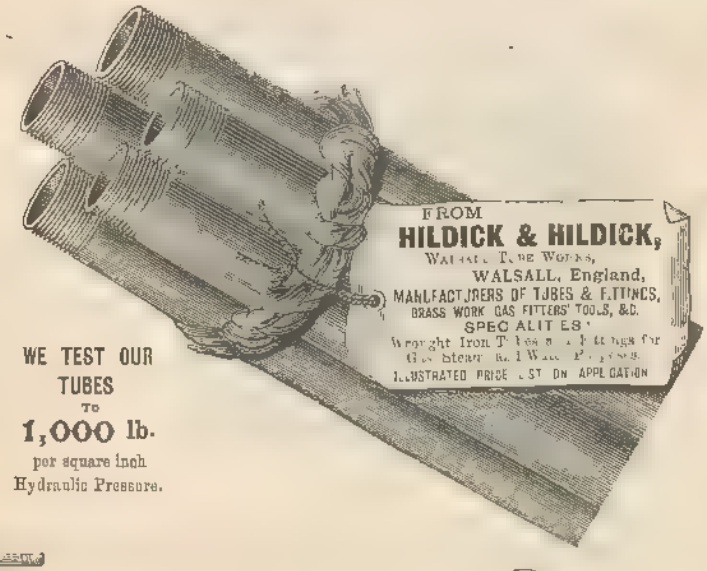
FOR

GAS, STEAM, WATER HEATING AND HYDRAULIC PURPOSES,

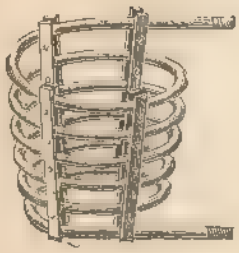
PLAIN, GALVANIZED OR ENAMELLED.

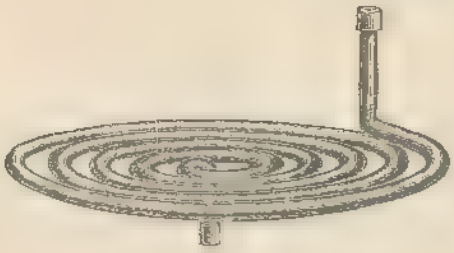
TUBES for ARTESIAN WELLS, SHIPBUILDING, ARCHITECTURAL & OTHER PURPOSES.

Telegraphic Address—
"HILDICK, WALSALL."



WE TEST OUR TUBES TO 1,000 lb. per square inch Hydraulic Pressure.





COILS FOR ICE, REFRIGERATING,

CHEMICAL, OR HEATING PURPOSES.

All our Coils are made from Tubes of special thickness, and tested when finished by Hydraulic Pressure to not less than 500 lbs. per square inch.

ILLUSTRATED PRICE LISTS AND DISCOUNTS ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CHARLES P. KINNELL & COMPANY

Telegrams—
'KINNELL, LONDON.'

HOT WATER ENGINEERS,

OFFICES & WAREHOUSES—
65A, SOUTHWARK ST., S.E.

FACTORY—
4 & 6, GROVE, S.E.

WHARF—
31, BANKSIDE, S.E.

SOUTHWARK, LONDON, S.E.

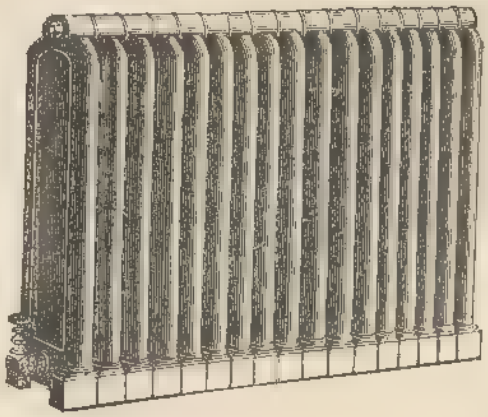
Patentees and Manufacturers of the "Silver Medal Horse Shoe" Boiler, "Rochford's" Horizontal Tubular Saddle Boiler, &c.

THE

"SOUTHWARK" HOT WATER RADIATOR

Most powerful Radiator Manufactured.

Each foot in length is equal to 12-ft. 4 in. pipe.



Height 36-in.

Projection 9-in.

Manufactured in any length up to 6-ft.

Price 30s. per ft. (length).

THE "SOUTHWARK" RADIATOR has a direct waterway connecting all sections at top and bottom. The series of thin flat waterways present a larger heating surface than obtained in the same space by any other Radiator manufactured; it contains no more water, and has no small tubes complicating the circulation.

CHARLES P. KINNELL & COMPANY hold in their London Warehouses one of the largest stocks in the country of all classes of Hot Water Appliances, including:—

PLAIN AND ORNAMENTAL COILS, HOT WATER BOILERS, PIPES. | ORNAMENTAL COIL CASES, VALVES, CONNECTIONS, &c.

While maintaining the well known standard of quality of our Manufactures, our great facilities and extensive business enable us to compete on favourable terms with any house in the trade.

HOT WATER APPARATUS ERECTED COMPLETE.

Schemes of Heating Prepared and Estimates Furnished Free of Charge.

References given to London Architects for whom we have carried out large works. We give six to twelve months' guarantee with every Apparatus we erect.

Inspection of our Stock and Manufactures invited. Illustrated Catalogues free on application.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address—
"Therefore, London."

THE "ALAND"

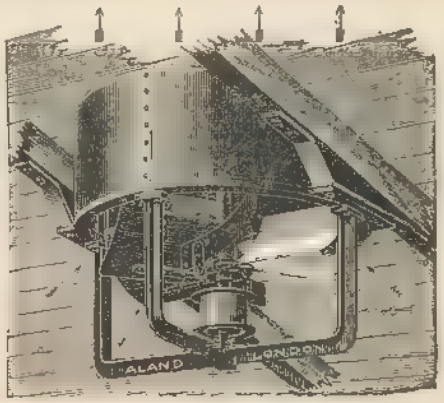
Telephone, No. 1653.

PATENT AIR PROPELLER.

THE BEST AND CHEAPEST IN THE MARKET

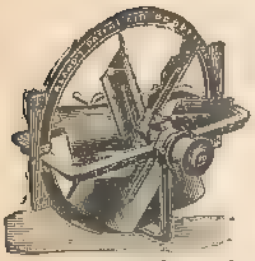
FOR

VENTILATING,
COOLING,
DRYING,
HEATING,
EXHAUSTING,
&c.



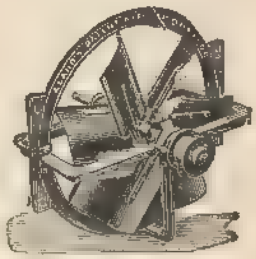
FOR

REMOVING HEAT,
DUST,
FOUL AIR,
GASES,
VAPOURS,
&c.



THE "ALAND"

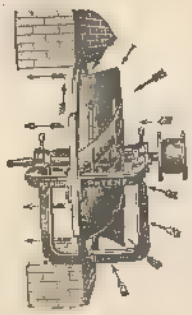
stands unrivalled for Moving Large Volumes of Air with a small expenditure of power.



Many Firms have substituted the **ALAND** *Propeller for others with greater increased effect, and in some cases even smaller sized ALAND Propellers have given much better results.*

IS EXTENSIVELY USED IN

LAUNDRIES, JUTE MILLS,
PRINT WORKS, DYE WORKS,
IRON WORKS, BLEACH WORKS,
PAPER MILLS, BREWERIES,
FLOUR MILLS, FACTORIES,



SUGAR REFINERIES,
BAKERIES, PUBLIC BUILDINGS,
WAREHOUSES, SCHOOLS,
TUNNELS, MINES,
HOTELS, THEATRES, &c., &c.

Licensees and Manufacturers,

E. JACOBS & CO.,

105, QUEEN VICTORIA STREET. LONDON, E.C.

PLANS, PRICES, AND PARTICULARS ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

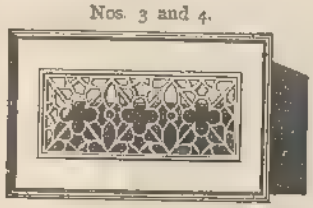
NETTLEFOLD & SONS, 54, HIGH HOLBORN, LONDON, W.C.

PRICES OF

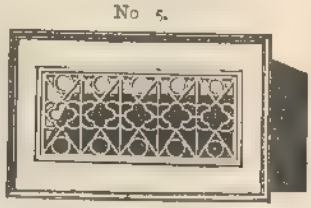
ARNOTT'S CHIMNEY VENTILATORS.

PLAIN FRONT.
Nos. 1 and 2.

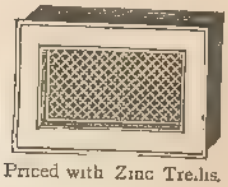
MOULDED FRONT SHOWN WITH TRELLIS
Nos. 3 and 4.



GOTHIC FRONT.
No 5.



PLAIN FRONT, WITH SILK FLAPS.
Nos. 6 and 7.



Priced with Zinc Trellis.

	No. 1.		No. 2.		No. 3		No. 4.		No. 5.		No. 6.		No. 7.		No. 8.		No. 9.	
Size of Fronts	11 × 8		16 × 9		12 × 8½		16 × 10½		10 × 6		11 × 8		16 × 9		12 × 8½		16 × 10½	
Priced without Set Screws ..	s.	d.	s.	d.	s	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
Plain Iron	5	0	7	9	6	8	9	4	4	4	7	3	10	0	8	9	11	0
Japanned Bronze	6	8	10	0	8	3	12	0	6	0	8	9	12	0	10	0	13	3
Japanned White, with Gold Lines ...	8	9	12	0	10	0	14	3	7	9	10	0	13	3	11	0	14	6
Brass Fronts	16	6	27	6					16	6	24	0	32	0				
Brass Trellis Fronts for the above...	3	4	6	8	4	6	7	9							3	4	5	6

Nos. 8 and 9 have Silk Flaps and Zinc Trellis as 6 and 7, and Moulded Fronts as 3 and 4.

Set Screws, 4d. each.

LARGE VENTILATORS FOR PUBLIC BUILDINGS, SCHOOLS, CHURCHES, HOSPITALS, &c., MADE TO ANY DIMENSIONS.

MICA - FLAP VENTILATORS (Outlet),

(BOYLE'S PATENT,)

FOR THE DISCHARGE OF HEATED AND VITIATED AIR FROM ROOMS

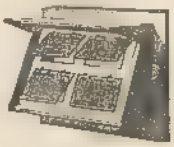
Into Smoke Flues or other Shafts.

The **Valves** are composed of **Mica**, which is light, rigid, and non-corrosive, and are so sensitive that they open with the slightest appreciable motion of air, and immediately close against down draughts, thus effectually preventing smoke from entering the room.

No. 1.
Plain Iron.
Fronts.

Front View.

Back View.



Front View.

No. 3.
Brass Trellis
Fronts.

Quality	Size of Front / Size of Box	11 × 5 in.* / 9 × 3	11 × 7 in.* / 9 × 5½	11 × 9 in. / 9 × 7¾	11 × 11 in. / 9 × 9½	16 × 11 in. / 13½ × 9½
No. 1.	Plain Iron	3/-	4/6	6/9	8/3	11/6
,, 3.	Brass Trellis Fronts	5/6	8/-	10/6	13/6	19/-

* Also Vertical Ventilators 5 × 11 in. and 7 × 11 in. at same prices.
Larger Sizes to order 18 × 18, 27 × 18, 36 × 18, 27 × 27, 36 × 27, 36 × 35 inches, out to out of Box.

SPECIAL QUOTATIONS FOR QUANTITIES

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

EDWIN OLDROYD,

Established 1848.] Engineer, [Telephone No. 241.

CROWN * WORKS, * NEAR * CORN * EXCHANGE, * LEEDS.

HOT WATER HEATING, CALORIFICS, & VENTILATING

A FEW EXAMPLES OF APPARATA AT WORK:

N. E. Railway Carriage & Waggon Building Works, and three Railway Workmen's Institutes, Offices, &c., York
Central Higher Grade Board Schools, Leeds
Coliseum & Coliseum Buildings, Leeds
Corporation Fine Art Galleries, Leeds
Albert Hall & Mechanics' Institute, Leeds
Boys' New Science Schools, Leeds
Yorkshire College, Lecture Hall, and Museum, also Weaving and Dyeing Departments, Leeds
Philosophical Hall and Museum, Leeds
N. E. Railway Audit Offices, Newcastle-on-Tyne
The Palace (Lord Bishop of Ripon), Ripon
Wesleyan Theological College, Headingley
Ackwork College, Pontefract
St. Michael's Church, Headingley, Leeds
St. Martin's Church, Potternewton, Leeds
Emanuel Church, Beech Grove, Leeds
Christ Church, High Harrogate
Well Church, near Bedale
Sherburn Church, Sherburn-in-Elmet
Newton Congregational Church, Leeds
Trinity Wesleyan Chapel and Schools, Harrogate
Wesleyan Chapel, Ilkley
Quarry Mount Board Schools, Leeds
Beckett Street Board Schools, Leeds
Beeston Board Schools, Leeds
Sweet Street West Board Schools, Leeds
Pottery Field Board Schools, Leeds
Stanningley Board Schools, near Leeds
Claughton Board Schools, Birkenhead
Eccleshill Board Schools, near Bradford
Board Schools, Ripon
Private Residences.

Also upwards of 1,000 others, for every description of public and private buildings.

Maker of

HYDRAULIC LIFTS FOR PASSENGERS & GOODS.

Steam Power Lifts, Warehouse Hoists, Cranes, &c.

SUPERIOR MODERN STEAM ENGINES TO 60 HORSE POWER.

HYDRAULIC AND SCREW PRESSES, AIR PROPELLERS,

SHAFTING, DRUMS, & MILLWRIGHTS' WORK, &c.

For further information respecting Boilers, Coils, Pipes, Radiators, Fans, Valves, &c., apply as above.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Only Silver Medal Awarded.

Manchester Royal Exchange
Tuesday and Friday
No. 14 Pillar. 1.30 to 3.0

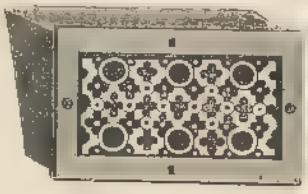
J. H. PICKUP & Co.,

HEATING, VENTILATING, AND SANITARY ENGINEERS, BURY, NEAR MANCHESTER.

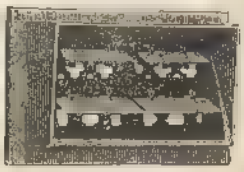
BRANCH WORKS: SHIFNALL STREET, BOLTON.

Telegraphic Address—
"PICKUP, BURY"

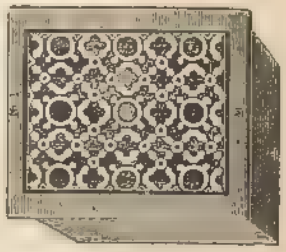
Telephone—
No. 25, BURY.
No. 133, BOLTON.



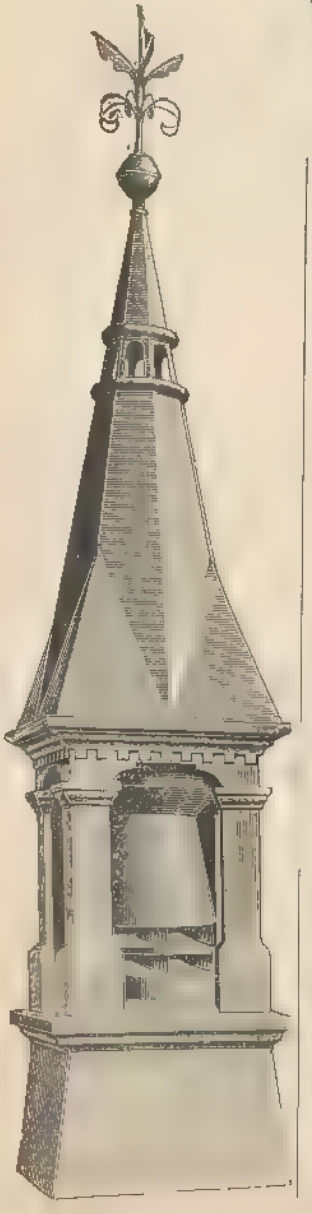
FRONT VIEW.



BACK VIEW



ORNAMENTAL TURRETS FOR CHURCHES, CHAPELS, AND PUBLIC BUILDINGS
SPECIAL DESIGNS AND DRAWINGS ON APPLICATION.

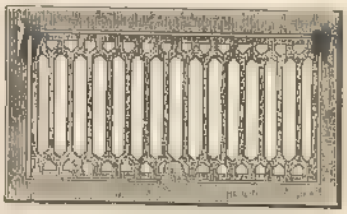


PATENT FLUE OUTLETS,

FOR CHIMNEY BREASTS,

PLAIN OR ORNAMENTAL FRONTS

Our FLUE OUTLETS are specially adapted for taking away heated or vitiated air from any room into Smoke Flues or Air Shafts, and are so constructed that the slightest current is sufficient to open them



OUTSIDE AIR GRIDS

OF EVERY DESCRIPTION,

Hinged, Plain or Ornamental, always in Stock.

ORNAMENTAL TURRETS,

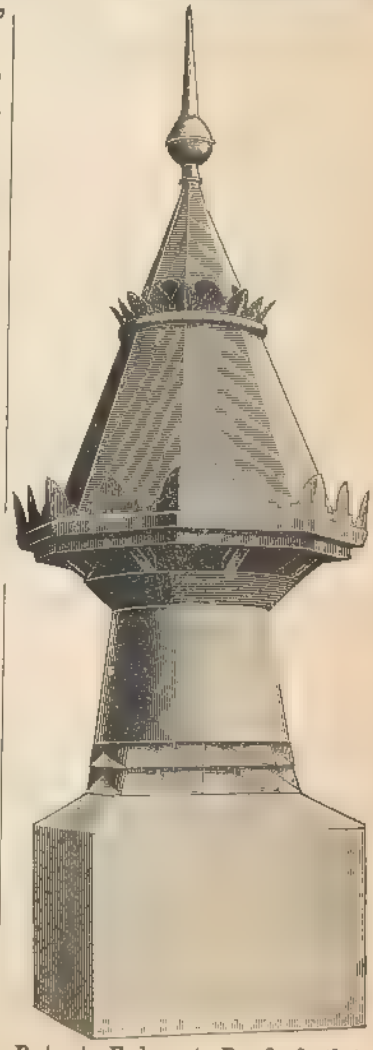
For CHURCHES, SCHOOLS,

AND

PUBLIC BUILDINGS.

These **TURRETS** are made from **SPECIAL DESIGNS**, and Constructed on the **LATEST SCIENTIFIC PRINCIPLES.**

They can be made to harmonise with any Style of Architecture.



OUTLET FOR CHURCHES, CHAPELS, AND PUBLIC BUILDINGS.
We have numerous designs in these Outlets. Prices and Drawings on application

Patent Exhaust Roof Outlet.

Our ROOF OUTLET is specially designed and constructed for taking away heated or vitiated air from any building without down draught.

AGENTS FOR THE CROSSLEY AIR PROPELLER. PRICES BY RETURN OF POST WHEN REQUIRED.

☛ Experienced Men sent to all parts to report on the Ventilating of every description of Building, and estimate the cost. ☚

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Only Silver Medal Awarded

J. H. PICKUP & Co.,

Telegraphic address "PICKUP, BURY."

Telephone No. 25 BURY No. 135 BOLTON

HEATING, VENTILATING, AND SANITARY ENGINEERS, BURY, NEAR MANCHESTER

BRANCH WORKS: SHIFNALL STREET, BOLTON.

Manchester Royal Exchange Tuesday and Friday No. 14 Pillar. 1 30 to 3.0.

We are making a SPECIALLY DESIGNED SUNLIGHT. *PRICES AND DRAWINGS ON APPLICATION.*

SUNLIGHTS.

These SUNLIGHTS are made for Lighting every description of buildings, and are so arranged that the hot air from the rooms and the products of gas are carried straight off into shafts provided.

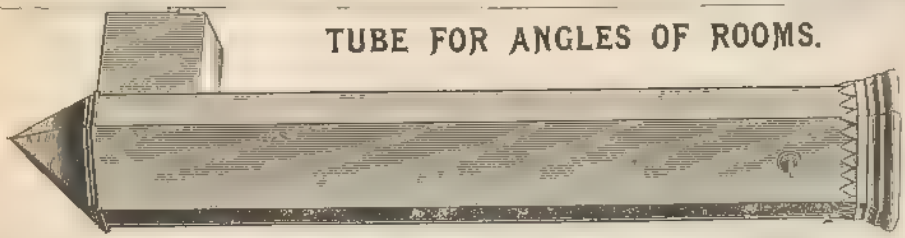
The inner tube carries away the products of combustion, and the large outer tube takes off the heated air.

A Sunlight, when properly fixed, is the best method of Lighting and Ventilating a School, Hall, or Public Building.

Where Sunlights are used for drawing off the heated air, and Tobin's Patent Tubes are fixed for introducing fresh air, a perfect and regular change takes place in the atmosphere of the room, and no draught is perceptible.

REFERENCES AND TESTIMONIALS IF REQUIRED.

TUBE FOR ANGLES OF ROOMS.

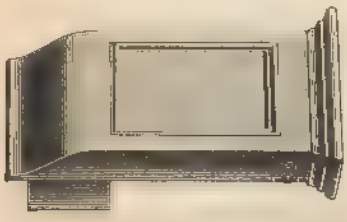


REFERENCES IF REQUIRED.

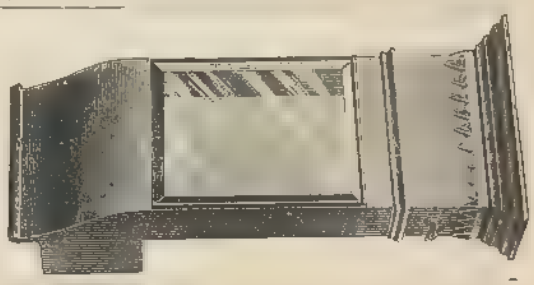
EVERY DESCRIPTION OF TOBIN'S PATENT VENTILATING TUBES MADE TO ORDER.

For the Introduction of Fresh Air into any kind of Building.

TUBES suitable for DRAWING ROOMS, DINING ROOMS, BED ROOMS, BILLIARD ROOMS, OFFICES, CHURCHES, SCHOOLS, &c.



TUBE, WITH MIRROR.



TESTIMONIALS ON APPLICATION

Special attention paid to the VENTILATING OF CARD ROOMS, WEAVING SHEDS BLEACH WORKS, DRYING ROOMS, &c

☞ BEST OF WORKMANSHIP GUARANTEED. ☜

Agents for the CROSSLEY AIR PROPELLER. Prices by return of post when required.

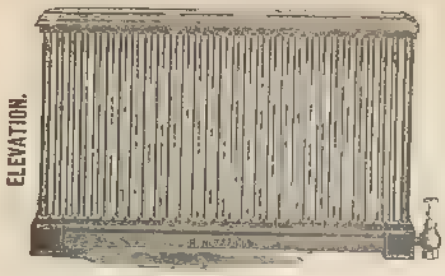
EXPERIENCED MEN SENT TO ALL PARTS TO REPORT ON THE VENTILATING OF EVERY DESCRIPTION OF BUILDING & ESTIMATE THE COST.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

G—HOT WATER, WARMING, LIGHTING, AND VENTILATING.

T. A. HEAPS & CO., HOT WATER ENGINEERS, WESTGATE, HUDDERSFIELD.

HEAPS' REGISTERED RADIATOR. No. 77,746.



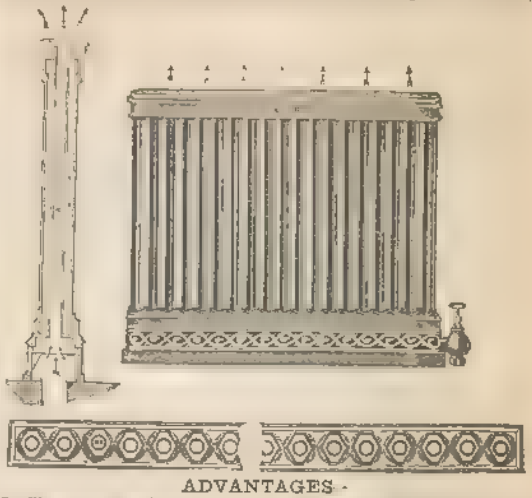
THIS Registered Radiator is suitable for warming all classes of buildings, is well finished, and does not require a coil case. Thus all parts can be easily dusted and kept clean. The heating or radiating surface is very great; it will give off as much heat as an ordinary coil occupying three times the space, and containing five times as much water, thus requiring less boiler power to heat, and saving from 30 to 50 per cent. of fuel. The cost is about the same as that of common coils, which require in addition expensive cases to cover their ugliness. The Radiator can be fixed to any ordinary apparatus to make it more efficient

PRICES FROM £1 17s. each.

Full prices and particulars, also plans, practical specifications and prices for heating any kind of building, to be obtained from the makers (who will guarantee the efficient working of their system)

HEAPS' Patent Hydro-Caloric Radiator and Inlet-Ventilator,

The most perfect system yet invented for Warming and Ventilating Mansions, Churches, Institutions and all public and private buildings



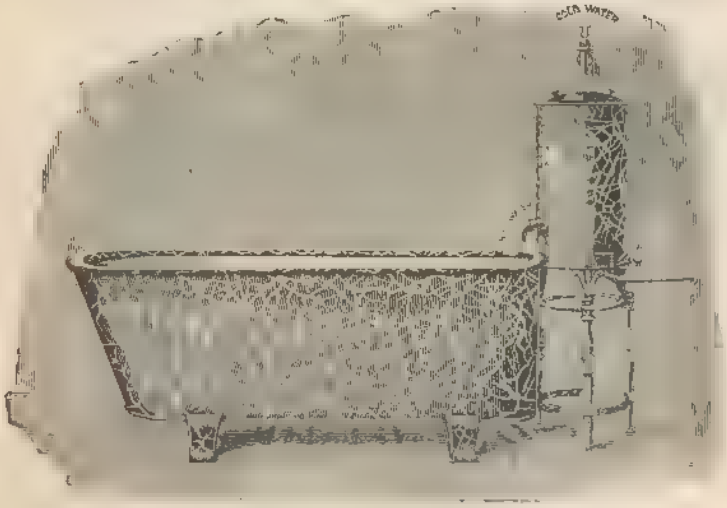
ADVANTAGES.

It will warm and ventilate [illegible] It introduces fresh warmed air, [illegible] the room. It admits [illegible] fresh air [illegible] surface than any coil of the same size. [illegible] apparatus [illegible] prevents [illegible] and Disinfector [illegible] Hot Water Apparatus. [illegible] require any [illegible] cleaned, and kept free from dust. It can be [illegible] and furniture. It causes [illegible]

MADE ANY SIZE, PRICE FROM £4 14s EACH.

MAUGHAN'S PATENT GEYSER COMPANY, LIMITED,

51, QUEEN VICTORIA STREET, and HOLYWELL ROW, FINSBURY, E.C. (late Cambridge Heath).



Illustrated Catalogue of Patent Geysers, Sunray Stoves, Baths, &c., on application.

Sole Manufacturers of

MAUGHAN'S PATENT GEYSER,

Or Instantaneous Water Heater,

FOR BATHS, &c.

HIGHEST AWARDS—London, 1870; Cornwall, 1872; London, 1872; Amsterdam, 1883; Antwerp, 1885.

SPECIAL ADVANTAGES.

Hot Water at any time, in any quantity, the instant required.
No Tubes or chambers to become choked.
No possibility of explosion from any cause.
Small Consumption of Gas (cost of Bath, ¾d.)
No smell or annoyance from the Burner.

SAFETY, SIMPLICITY, DURABILITY, & ECONOMY.

Upwards of Nine Thousand have been supplied in all parts of the World.

NOTE.—It is requested that persons ordering Geysers will specify "MAUGHAN'S PATENT" to avoid imposition and disappointment.

Also the "SUNRAY" CONDENSING STOVE (Burns Gas or Oil).

For HEATING OFFICES, ROOMS, ENTRANCE HALLS, CONSERVATORIES, &c, without Smoke or Smell.

REQUIRES NO FLUE.

BATH MAKERS. GAS AND HOT WATER ENGINEERS.

185A

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ESTABLISHED 1778.

A. SEWARD AND CO.,

LANCASTER,

HEATING AND SANITARY ENGINEERS,

PATENTEES AND MANUFACTURERS OF

HOT WATER AND STEAM HEATING APPARATUS.

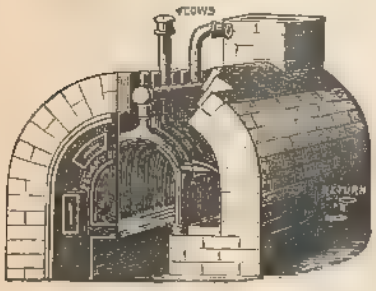
SEWARD'S SYSTEM OF COMBINED HEATING AND VENTILATING

IS SPECIALLY ADAPTED FOR

CHURCHES, CHAPELS, SCHOOLS, PUBLIC BUILDINGS, PRIVATE HOUSES, &c.,

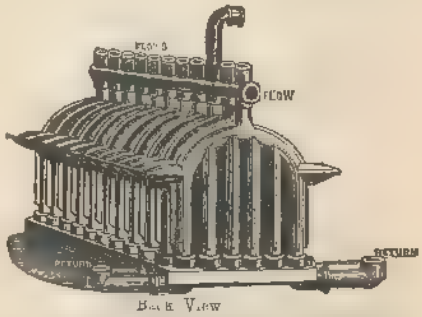
and has been commended by many eminent Architects and Engineers.

SEWARD'S PATENT TUBULAR SADDLE BOILER



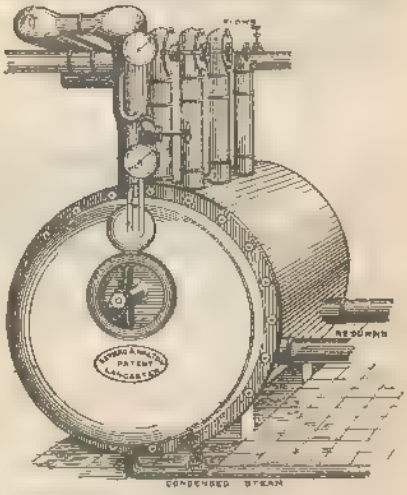
Front View, as Set in Brickwork.

is one of the cheapest and most powerful Boilers yet introduced, having a larger heating surface than any other Boiler; it being in Sections can be made to any required size, and easily repaired, it is most economical in fuel and requires very little attention.



Back View

SEWARD AND WALTON'S PATENT STEAM HEATER



is specially designed for Buildings heated with Hot Water on the Low Pressure System, where Steam is available, it supersedes the ordinary Furnace Boiler, the water is rapidly heated with the expenditure of a minimum quantity of steam which in passing through the heater is kept separate from the circulating water, becomes thoroughly condensed and does not leave the heater until its temperature is reduced to about that of the water it has been employed in heating, so that no portion of the calorific power used is wasted

This Heater is constructed on scientific principles; is most economical in working; requires no attention; has no moving parts to get out of order; is silent in action and takes up very little room.

ESTIMATES AND PLANS FURNISHED FOR HEATING AND VENTILATING ALL KINDS OF PUBLIC AND PRIVATE BUILDINGS, GLASS HOUSES, &c

EFFICIENCY GUARANTEED *REFERENCES ON APPLICATION.*

A. SEWARD AND CO.,

MARKET STREET AND SUN STREET, LANCASTER.

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PETERS, BARTSCH & CO.,

Telegraphic Address—
"PETERS, DERBY"

DERBY.

Registered.] **CARBOTRON.** [Registered.

The marvellous fuel burning without Smoke, Smell or Dust.

CARBOTRON PORTABLE HEATING & COOKING STOVES.

Requiring no Chimney, can be carried about whilst burning. Suitable for Halls, Corridors, Shops, Workshops, Greenhouses, Conservatories, Stables, Coach Houses, Harness Rooms, Cellars, Etc., Etc.

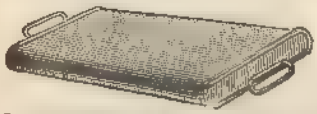
"These Stoves are particularly adapted for effectually airing and drying new buildings, as they can be left day and night with once charging."

CARBOTRON SELF-HEATING BOX IRONS.

For Tailors, Dressmakers, Laundries, Households, Etc., Etc. Uniform heat for any length of time. No loss of time in cleaning, no waiting for heating iron

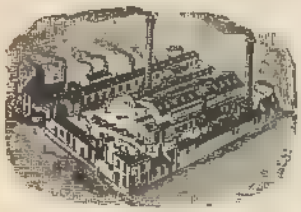
CERTIFICATE OF MERIT from the SANITARY INSTITUTE.

PATENT CHEMICAL HEAT RETAINERS.



Foot Warmers, Carriage Warmers, Bed Hand and Muff Warmers, giving out an agreeable and even heat for a remarkably long time, from four to sixteen and even twenty hours (according to size).

See also CARBOLINE, *p.* 122 ANTIOXIDE *p.* 143 INDESTRUCTIBLE COMBINATION WASHERS, *p.* 143



JOHN SPENCER,

(Late WHITEHOUSE & Co., Lm., Established 1847.)

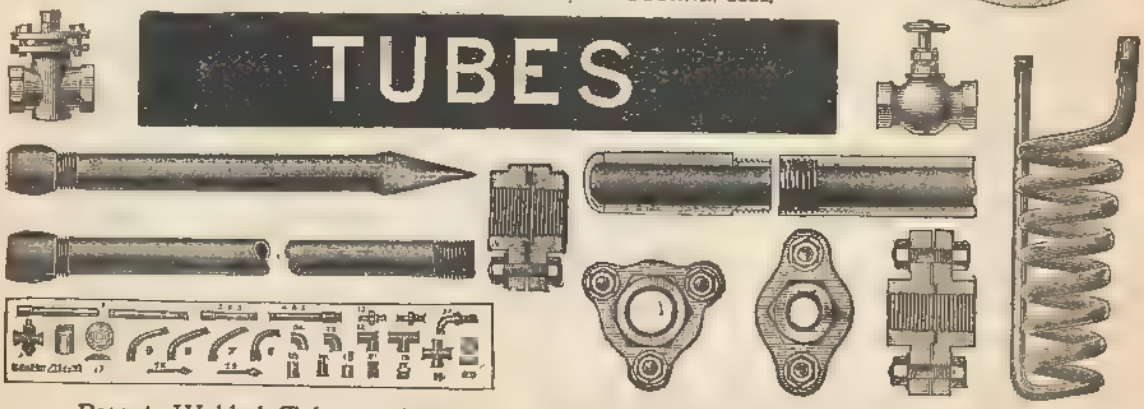
GLOBE TUBE WORKS,

WEDNESBURY,

And 14, Great St. Thomas Apostle, London, E.C.

Telegraphic Address—"TUBES, WEDNESBURY." "TUBES, LONDON."

GOLD MEDAL, MELBOURNE, 1881.


TUBES

Patent Welded Tubes and Fittings for Gas, Steam, and Water; Galvanised, White Enamelled inside, or coated with Dr. Smith's Composition. Hydraulic Tubes, Boiler Tubes, and Fittings Core Bars, Telegraph Poles. Gas Fitters' Tools, Well and Boring Tubes, Tubes and Cylinders for Compressed Air. Coils to 5ft. diameter. Tubes kept in Stock up to 6 in diameter.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HEATING APPARATUS.

J. & W. WOOD,

HOT WATER ENGINEERS,

BIRMINGHAM STREET FOUNDRY, STOURBRIDGE.

Manufacturers of IMPROVED EXPANSION JOINT HOT WATER PIPES, COILS, VALVES, BOILERS, and other HOT WATER SPECIALITIES.

Estimates for Heating Churches, Greenhouses, Public Buildings, &c., on the most approved principle, free.

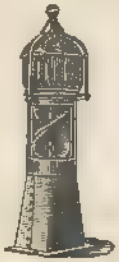
AWARDED GOLD MEDAL, INTERNATIONAL EXHIBITION, CALCUTTA, 1884.

Awarded 61 Gold and Silver Medals and Diplomas Fifty Thousand Testimonials and References for Successful Application.

ESTABLISHED 1858.

NO GOODS GENUINE WITHOUT THE TRADE MARK AFFIXED.

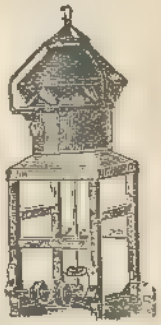
New Patent Self Acting Archimedean Screw Ventilator for Buildings and Works.



New Patent Archimedean Screw Ventilator for Curing Smoky Chimneys.

James Howorth's New Patent Horizontal Screw Exhauster and Blower, fixed on to the Wall, with Elbow Square Terminal, and Self Closing Valve

James Howorth's New Patent Self-acting Radial Screw Ventilator, for Buildings and Works.



James Howorth's New Patent Radial Screw Ventilator, for Blower Drawing.

JAMES HOWORTH & Co., Consulting and Ventilating Engineers, Victoria Works, Farnworth, nr. Bolton, & Manchester, England.

NOTES REFERRING TO GOODS IN THIS SECTION.

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NOTES REFERRING TO GOODS IN THIS SECTION.

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THE

COMPLETE CATALOGUE.

Section H.

IRONMONGERY & HARDWARE.

COMPRISING:—

LOCKS, STOVES, GRATES, KITCHEN DOOR FURNITURE, FIREPROOF SAFES, DOORS, &c.

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NOTES REFERRING TO GOODS IN THIS SECTION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

H—IRONMONGERY AND HARDWARE.

NOTES REFERRING TO GOODS IN THIS SECTION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

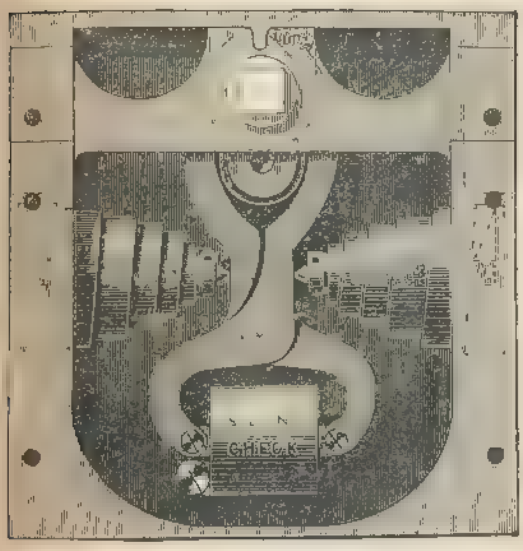
Telegraphic Address—
"Robert Adams, London

ROBERT ADAMS'

PATENT DOOR SPRINGS FOR SWING AND REBATED DOORS

HAVE won highest honours at every International competition, securing 40 first-class awards [illegible] other Medals &c. These silent Door Springs, Secure Fanlight Openers and ROBERT ADAMS' other Patents and Specialities have gained the foremost place with the profession and trade as users speedily perceive that they possess advantages not to be found in those of any other manufacturer. ROBERT ADAMS' "Victor" Springs are simple, yet scientifically constructed, adjustable throughout self-compensating, direct acting, and with a grandly arranged distribution of spring power as required, and being made in various forms and sizes are adapted to all classes of work. Thus the "King Victor" Silent Double Action Spring Hinge for exposed positions will resist strong winds, yet yields to a child's pressure, while the Double Action Silent "Crown Victor" is recommended as the best all round Spring Hinge made, as its positive check action makes it suitable also for single action doors; it will close into a stop frame with absolute silence. Each of the following Springs have likewise some special feature and advantage, and embrace the most valuable varieties known; they are patented at home and abroad, and further protected by registered trade mark the "Victor" and named as follows: King, Empress, Queen, Crown, Prince, Princess, Premier, London, Duke, Duchess, Royal, Smith Eclipse, Empire, Gem, Girder, Eva, Alpha and others, while the Door Spring and Adjuster for setting doors at any angle dispenses with leather straps, &c. ROBERT ADAMS' various Springs (the largest assortment in the world) enable him to meet every contingency.

"KING VICTOR" FOR EXPOSED POSITIONS).



No. 176. Double Action with Check

The "King" "Victor" Double Action Floor Spring Hinge for swing doors is recommended for outer doors and all good work.

No. 176, with Check, as shown for ordinary doors, each 52/6
No. 178, Do. Do. for heavy doors, each .. 73/6
No. 143, without Check, for ordinary and outer doors, each 42/-
No. 154, Do. for heavy doors, each .. . 63

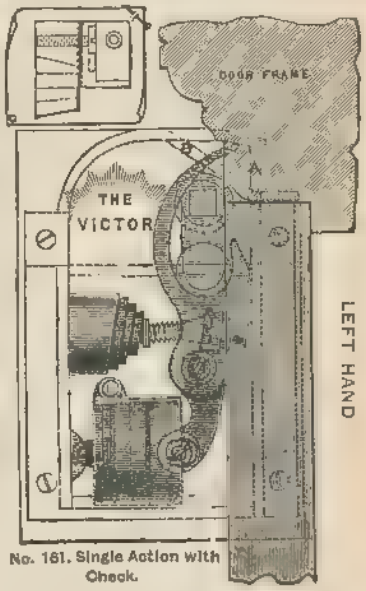
Complete with patent Adjustable Shoe and Top Centre.
Special Oil and Cans extra.

The "Queen" patent "Victor" Single Action Floor Spring is the best that can be had for rebated doors.

No. 161 with Check as illus. for ordinary doors, each 35/-
No. 175, Do. Do. for heavy doors, each . 45/-

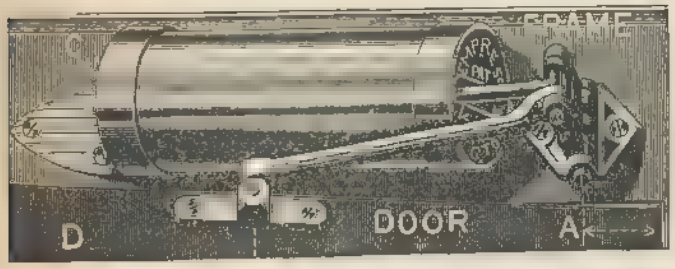
Butt Hinges for Top Centres are not included.
Special Oil and Cans extra.

"QUEEN VICTOR.



No. 161. Single Action with Check.

"EMPRESS VICTOR" PATENT DOOR SPRING WITH SILENT PNEUMATIC CHECK.



Supersedes all the noisy and so-called cheap Pneumatic varieties, being neater, stronger, more readily applied, applicable inside and outside, or on either the right or left hand of the door, without change of fittings. This Spring can be fixed where others cannot, and is suitable for narrow transomes, requires only 1 inch space back of Hinge line, opens wider than others, easily fixed and most durable, will close at any desired speed, is made to suit any sized door, and can be taken away when removing to other premises.

	each.
No. 183, for doors not exceeding 2 ft. 6 in. wide × 1½ in.	20/-
No. 182, for doors not exceeding 2 ft. 8 in. wide × 2 in.	25/-
No. 181, for doors not exceeding 3 ft. 6 in. wide × 3 in.	30/-
No. 180, for doors not exceeding 4 ft. 0 in. wide × 3 in.	35/-

Specialities—Fanlight Openers Ventilating Gear for Lantern Lights, Conservatories, &c., Door Spring Hinges Buffers and Stops, Casement Bolts Stays and Fasteners Sash Fasteners "Climax" Reversible Window Fittings, Sash Centres and Bolts Gusset Side Draught Preventers for Fanlights, Collinge's Gate Hinge Fittings, Quayle's Patent Sliding Window Bars, Rickwood's Patent Slate Fasteners, Lifts, and other Patented Specialities for the Building Trade and allied Trades.

London Agent for the NORTON DOOR CHECK AND SPRING.

ADAMS' BUILDING TRADES EMPORIUM, 67, Newington Causeway, London, S.E.

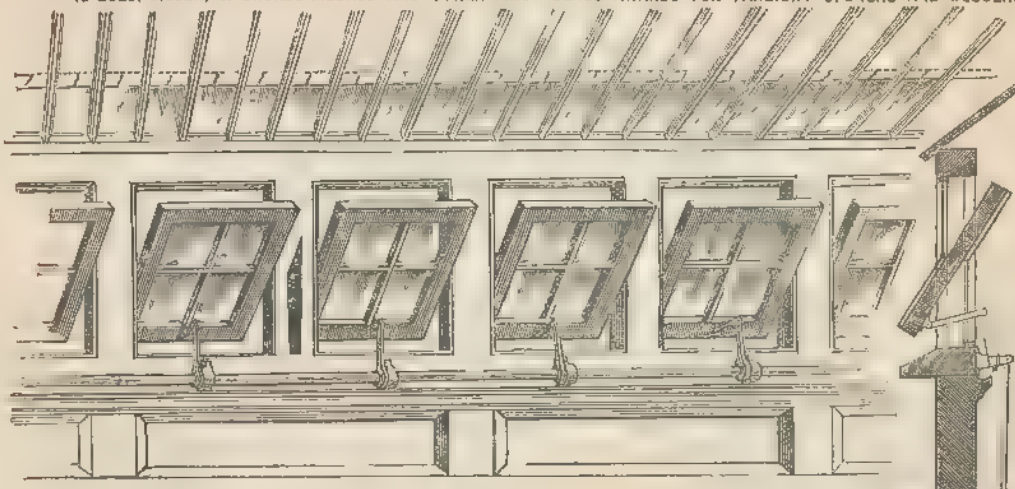
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address—
"Robert Adams, London."

ROBERT ADAMS, PATENTEE,

Has received at the numerous International and Trade Exhibitions at Home and Abroad,

40 GOLD, SILVER, & BRONZE MEDALS AND OTHER FIRST CLASS AWARDS FOR FANLIGHT OPENERS AND CLOSERS, ETC.



ADAMS' FANLIGHT OPENERS AND CLOSERS AND VENTILATING GEAR for Lanterns, Conservatories, and other Continuous Ranges of Lights, which are universally acknowledged to be simply perfect. There is no doubt that the Screw and Regulator System is by far the best, as the Sashes are always under perfect control, and fastened in whatever position left; the action is at once powerful, easy and efficient, and being simple does not get out of order.

Many modifications and patterns are made to suit every requirement as regards position of sashes, windows, etc., as well as to cost.

"LINK MOTION" PATTERN.

This near Fanlight Opener, "Link Motion" Pattern, is applicable for nearly all Fanlights, and is largely used for all classes of work in mansions, schools, business premises, churches, &c.; the fittings can be finished in any style, viz., Painted or Bronzed Iron, Nickel Plated, Lacquered Brass, &c.

No. 114, for Fanlights opening Inwards
" 117, " " Outwards.
With painted slow speed Iron Rods, 6 ft. long, and fittings, and lacquered Brass Regulator
For 1 Light . .. 16/- each.
" 2 " .. .. . 28/- "
Rods over 6 ft. 1/- per 3 ft. extra.
Solid Brass, Polished, and Lacquered
For 1 Light . .. 30, each.
" 2 " 45 - "
Rods over 6 ft. 3/- per 3 ft. extra.

Quick Speed Regulators, which are supplied unless otherwise ordered, as they are mostly preferred, 2/6 extra.

No. 119.

"TRIUMPH" PATENT FANLIGHT CENTRES.

For Fanlights especially designed to facilitate the hanging of pivoted Sashes, dispensing with the old jointed bearings, which are liable to allow the Sashes to slip out of the risk of serious accidents.

No. 59.

No. 60.

No. 59. Brass Case and Bolt .. .. 12/- doz.
No. 60, 6s. per doz. Escutcheons, 6d. doz.; Key, 2d.

PATENT GEARING TO SKYLIGHT SASHES, ETC.

Sashes for Lantern Lights, Conservatories, Window &c. &c. can easily be regulated to any position by this system, which is powerful and steady. A simple connection—see the Regulator Rod—is the only thing that is required to be attached to the sash, and the rod passing down through the roof to the keep, so that a child can open or close the sash, or, if the roof be high, by a pole and hook, and even be concealed altogether if required.

PATENT SCOTT ADJUSTMENTS.

Scott Adjustments, which work with cords, although not so good as the Screwed Rod and Regulator system, are efficient Openers and Fasteners.

FOR FANLIGHTS.

	Bronzed Iron	Brass.
No. 119, 10 in.	2/10	..
No. 116, 10 in.	4/3	9/-
No. 164, 15 in.	7/-	12/6
No. 165, 18 in.	11/6	28/6

FOR SKYLIGHTS.

	Bronzed Iron.	Brass.
No. 166, 10 in.	5/-	10/6
No. 167, 15 in.	7/9	18/6
No. 168, 18 in.	12/9	25/-

Pulleys for Nos. 119, 163, 164, 166, 167 and 170 .. Brass 2/4 .. Iron, 1/6 each.
Ditto Nos. 165, 168, and 169 " " 4/3 " " 2/6 "

Write for Lists and Particulars, and of Specialties in Door Springs, Casement Bolts, Stays and Fasteners, Ventilators, Sashes and Frames in Metal and Wood, and other Improved Appliances and Ironmongery.

London Agent for the NORTON DOOR CHECK & SPRING, and for QUAYLE'S PATENT SLIDING WINDOW BARS and RICKWOOD'S PATENT SLATE FASTENERS.

ADAMS' BUILDING TRADES EMPORIUM, 67, Newington Causeway, London, S.E.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address—
Robert Adams, London.

ROBERT ADAMS' PATENTS.

"CLIMAX" PATENT REVERSIBLE WINDOW SYSTEM

Offers a ready and Inexpensive solution to the hitherto difficult problem of

How to Make a Window Reversible

(to enable a person to clean the outside of the glass, while standing within the room) without interfering with the arrangement of the sliding sashes, or detracting from the normal appearance of the window. This system is applicable to new as also to existing windows at a very moderate cost, so that there is no reason why every window should not be fitted with this invention, and thus avoid the great annual loss of life entailed by persons standing on window sills to clean the outside of the glass.

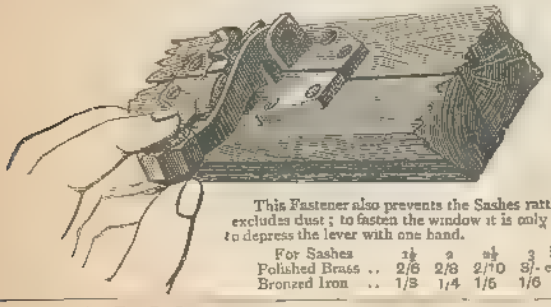
For Sashes up to 4 ft. deep 3/6 per set per sash,
" over " " 4 6 " "

SECOND QUALITY.

For Sashes up to 4 ft. 2/- per set per sash.
" over 3/6 " "

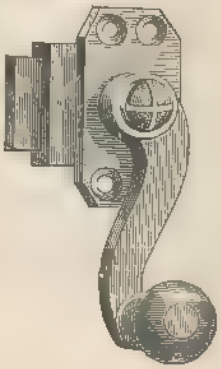
TRIUMPH PATENT SASH FASTENER, No. 51.

Cannot be opened from the outside by any instrument, although the sashes may be left open safely for ventilation between the meeting rails, or if they cannot be brought level. It overcomes all difficulties in closing and securely fastening the window. This fastener has already prevented many burglaries.



This Fastener also prevents the Sashes rattling, and excludes dust; to fasten the window it is only necessary to depress the lever with one hand.

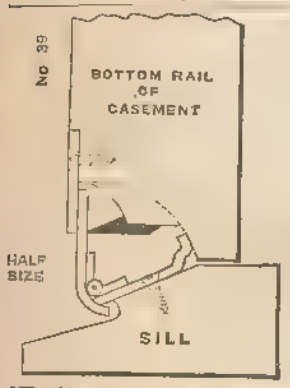
For Sashes	1½	2	2½	3 in.
Polished Brass ..	2/6	2/8	2/10	3/- each.
Bronzed Iron ..	1/3	1/4	1/5	1/6 "



"TRIUMPH" PATENT CASEMENT FASTENER.

Not only secures the Casement, but forces it firmly into the rebate, and, being self-locking, is not capable of being undone from the outside, thus giving the greatest security. The action is simple, and cannot get out of order.

In Polished Brass 3/8, 3/9, 4/- each, according to design.



"RELIABLE" PATENT WATER BAR.

With Improvement to guard against injury when stepped upon.

18	24.	36.	48.	60.	72. ins.
12,	14/6	20/-	24/6	27 6	29/6 each

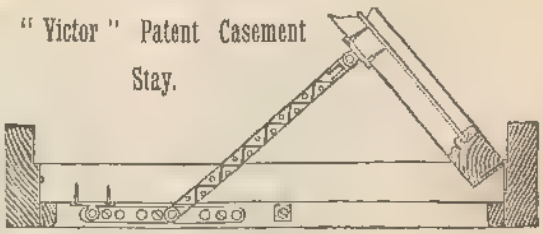
Or without Improvement.

11/8	13/8	18/-	22/-	25/-	27/- "

Other Patterns made for Casements opening out.

Draughts Strips and Excluders for every Requirement.

"Victor" Patent Casement Stay.



Although comparatively speaking new has nevertheless met with extraordinary success on account of its simplicity, neatness, strength, and ready adjustability.

Opening Inwards.

Bronzed Iron.	Brass.
No 204. 10 in. 2/- each.	No. 202 10 in. 3/- each.
" 205. 12 in. 2/4 "	" 203 12 in. 4/6 "

Opening Outwards.

Bronzed Iron.	Brass.
No 193. 10 in. 2/- each.	No. 191. 10 in. 3/- each.
" 194. 12 in. 2/4 "	" 192. 12 in. 4/6 "

☛ *Attention is called to the various Improved Specialities of the Trade, particulars and Prices of which will be forwarded on application.*

Agent for QUAYLE'S PATENT SLIDING WINDOW PROTECTION BARS, RICKWOOD'S PATENT SLATE FASTENERS, dispensing with the unsatisfactory Lead and other Clips, NORTON DOOR CHECK & SPRING CLIP.

ADAMS' BUILDING TRADES EMPORIUM, 67, Newington Causeway, London, S.E.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

ALBION IRON CO.,

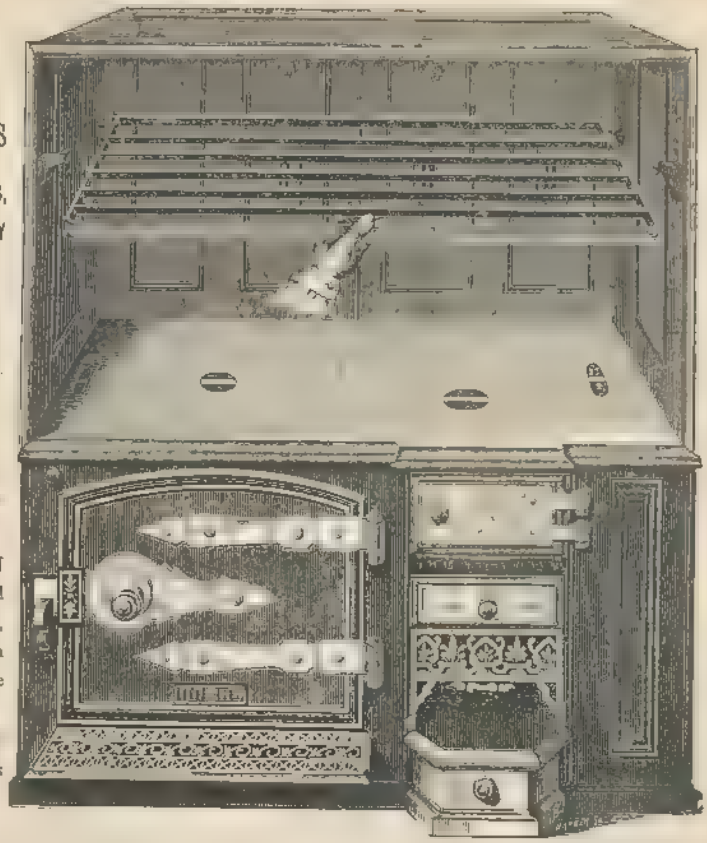
Telegraphic Address "ALBION LONDON

ALBION WAREHOUSE, 181, UPPER THAMES STREET, LONDON.

IRONFOUNDERS,
MERCHANTS,
AND MANUFACTURERS
OF
BATHS, BOILERS, CISTERNS,
COLUMNS, FINIALS GULLY
GRATES, GUTTERS
HOT WATER FITTINGS,
KITCHENERS, PORTABLE
STOVES, REGISTER STOVES
SASH WEIGHTS
STAUNCHEONS AND
WINDOW SASHES.

The 'HOUSEWIFE Close-fire KITCHEN RANGE is supplied with a very Large Oven, Narrow Sham Side, with space at back to take Wrought Saddle Boiler

Can be supplied with TWO OVENS Prices of this on application



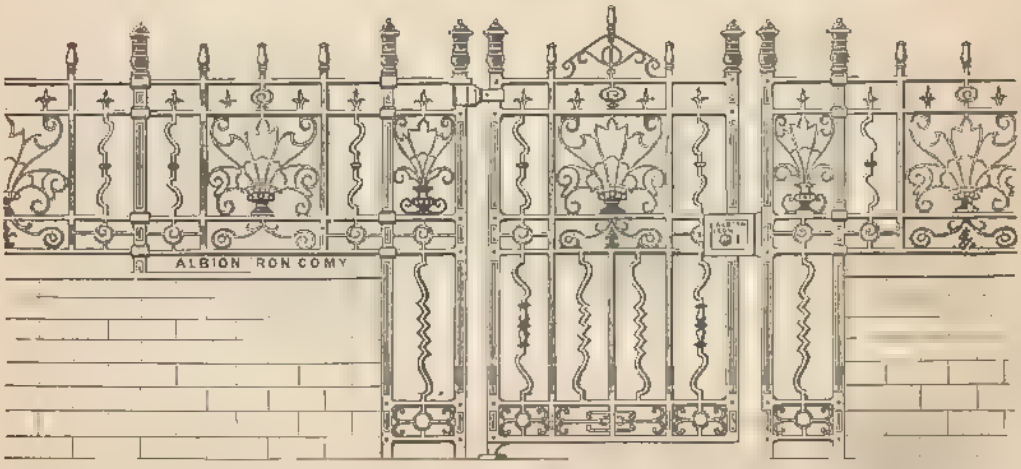
IMPROVEMENTS CLAIMED ARE -

Rods to Dampers, Fire Cover to tip-up, Plate Rack with Self-Acting Brackets.

HOT PLATE 26in. high by 18 in deep, and covings 28 in. high, with Bright Fittings complete as shown

	36in	42in
Oven & Sham	86/-	94/
Oven & Cast Side Boiler	93/	99/6
Wrought high pressure Boiler to fit above ..	19/6	23/6

ALBION, No. 175.



Iron Coping to fit any design of Railing, 1/6 to 2/- per foot.

Illustrated Catalogue sent on receipt of application, and Quotations given for any kind of Builders IRON WORK.

ALBION IRON COMPANY have a very large and well selected stock of 'VILLA' RAILINGS similar in dimensions to the above, which average from 3/- to 4/- per ft., prepared ready to fix to Stone Coping. No. 175 design shown is 4/6 per foot.

Owing to the fluctuations of the Iron Market prices are subject to revision without notice

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

BARNARD, BISHOP & BARNARDS,

Telegraphic Addresses:
"BARNARDS, NORWICH"
"BARNARDS, LONDON."

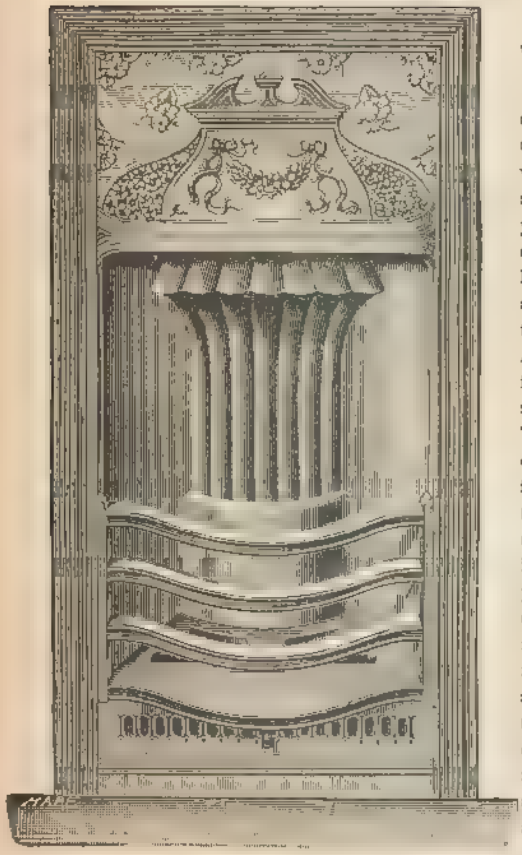
NORFOLK IRONWORKS, NORWICH.

London Show Rooms: 91, 93 & 95, QUEEN VICTORIA STREET, E.C.

Original Manufacturers of the Registered Slow Combustion Stoves known as the "COUNTRY PARSON'S FIRE GRATES," or "NORWICH STOVES." Our New List containing all the Latest Patterns is now ready, and will be sent Post Free upon application.

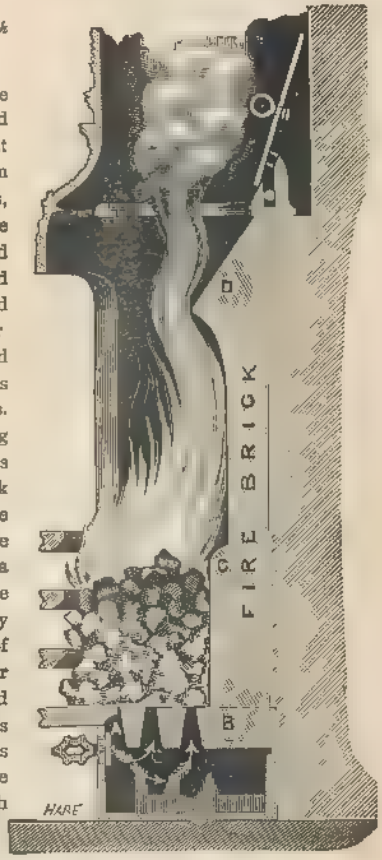
LATEST NOVELTY:

"THE NORFOLK PATENT STOVE."



(Elevation and section of which we give below.)

THE advantage of this stove over all others yet introduced consists of the fact that while constructed purely upon slow combustion principles, yet, when necessary, the combustion can be accelerated by means of the perforated air brick at the bottom, and the hit and miss ventilator. Another advantage claimed for this stove, is that of its smoke-consuming properties. This has been the burning question amongst Architects for many years. We think that with open stoves the total consumption of smoke is admitted by all to be a practical impossibility but we claim for this stove that by means of the unique form of fire basket, the smoke as far as possible is consumed and the remainder is robbed of its deleterious products. This form of fire basket can be adapted to all our stoves, with a few exceptions.



Also Manufacturers of Carved Wood Mantels, Coal Vases, Tile Slabs and Hearths in every variety, Curbs, Fire Irons and Rests.

Artistic Wrought Iron Work, of which we make a speciality for Architectural, Decorative, and Domestic purposes. The gates exhibited at the Great Exhibition of 1851, and purchased by the county for the principal entrance at Sandringham Park, were manufactured by us entirely of hand-forged iron.

KITCHEN RANGES, HOT WATER APPARATUS, AND STABLE FITTINGS. ARCHITECTS' OWN DESIGNS AND SPECIFICATIONS FAITHFULLY CARRIED OUT.

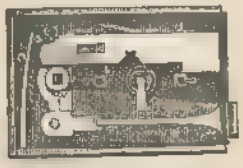
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Established 200 years. J-B & SONS, High-Class Ironmongery. PRIZE MEDAL FOR LOCKS AND SUPERIOR IRONMONGERY.

J. H. BOOBBYER & SONS,

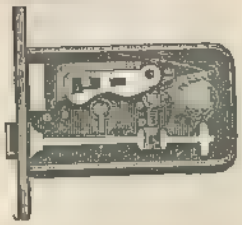
13 & 14, Stanhope Street,
14, Blackmoor Street, } Newcastle Street, London, W.C.

Fifteen minutes' from Charing Cross, Waterloo, Ludgate, and Farringdon Street Stations. Five minutes' from Temple Station.



RIM LOCKS.

		6-in.	7-in.
No. 100.	Boobbyer & Sons' All Brass Rim Locks, plain, with Gun Metal Keys	7/- ...	10/6 each.
„ 101.	Reeded Case All Brass Rim Locks	14/-	„
„ 102.	2-Lever Iron Rim Locks, Brass Bolts ...	3/6 ...	5/- „



MORTISE LOCKS.

No. 200.	Boobbyer & Sons' 4-Lever, best, with Gun Metal Bolts	7/6 ...	9/- „
„ 201.	Boobbyer & Sons' 2-Lever, with Brass Bolts	5/- ...	7/- „
„ 202.	Boobbyer & Sons' 2-Lever of lighter make, with Brass Bolts	3/9	„

Also **Springless Rim and Mortise Locks** of improved principle, from 4/6 each.

Locks to Differ, with Master Keys, to order.

Cabinet Locks.—Cupboard, Till, Wardrobe, Sliding Door *en suite*, or to differ; 30 or more *suites* on stock.

	Pitts' or Gibbons' Spindle.	Mace's Spindle.	Finger Plates.	
				Solid.
	per set.	per set.	each.	each.
1	5/6	2/6	9d. 1/3	1/9
2	6/-	...	1/9	...
3	7/-	...	2/-	...
4	8/-	...	3/-	...

A splendid selection of Brass Furniture and Finger Plates, 20 or more designs on stock.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Established 200 years. J-B & SONS, High-Class Ironmongery. PRIZE MEDAL FOR LOCKS AND SUPER OR IRONMONGERY.

J. H. BOOBBYER & SONS,

13 & 14, Stanhope Street, 14, Blackmoor Street, { Newcastle Street, London, W.C.

Fifteen minutes' from Charing Cross, Waterloo, Ludgate, and Farringdon Street Stations Five minutes' from Temple Station

FRENCH CASEMENT BOLTS.

No. 20. All Iron ... ... 7-ft. 2/6 each.
" 21. Iron with Brass Knob " 5/- "
No. 22. All Brass ... ... from 2/- foot.
" 23. Best ditto ... ... " 3/6 "

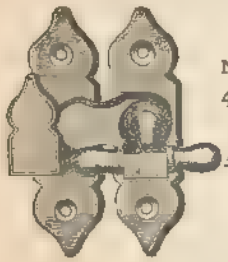
Also Espagniolette Bolts.

CASEMENT STAYS.

12-inch.

No. 30. Strong Screw down, solid Brass 27/- per doz.
No. 31. Extra Strong ditto ... 54/- "
No. 32. Double Jointed Pin Casement Stays, Brass, strong ... ... 25/- "
" 33. Ditto. ditto. Gun Metal ... ... 36/- "

CASEMENT FASTENERS.



No.
40. Polished Brass or Bronzed ... 9/- per doz.
41. Iron, Malleable 4/6 "
No.
42. Brass, Lacquered or Bronzed ... 15/- per doz.
43. Iron, Malleable, plain ... 4/6 "

SASH FASTENERS.

Hopkinson's Patent Guarded Arm and Reeded Knob ... ... 7/6 — 20/- per dozen.

A variety of other Patents on stock: Stanley, Albert, Meakins.

Stable Fittings.

Sash Lines.—Hemp, Flax, Cat-Gut, Steel Ribbon, Wire Rope, Copper Chain.

Hinges.—No. 50. Brass Butt with Double Steel Washers—
3-in. 2/-; 3½-in. 2/6; 4-in. 3/6; 4½-in. 4/9; 5-in. 6/6; 6-in. 9/6 per pair.

Floor Springs.—No. 60. Warranted, 28/- each. *Door Checks and Springs of all kinds.*

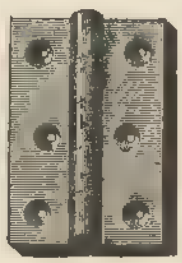
Fanlight Gear.—No. 70. Preston's, Beanland's, Leggott's, with Cords from 6/6, 2/9, 3/- each respectively.
No. 71. Leggott's, with winch handle ... ... from 16/- each.
No. 72. Eclipse Action do. ... ... " 11/- "
Models shewing action.

Ventilators.—Arnott's, Boyle's, Currall's, Sherringham's.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Baldwin's Butts

ARE MADE ONLY BY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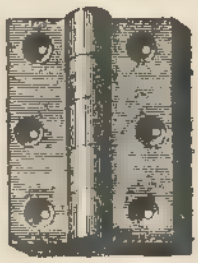
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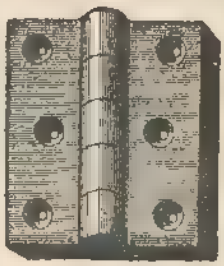

564

BALDWIN, SON & CO., Ltd.,

STOURPORT,

Also Broad Butts 200 and 564 of all Sizes.

Parliament Hinges, Skew Butts, and Cast-Iron Hinges

OF ALL DESCRIPTIONS.

Buyers are earnestly requested to see that the name **BALDWIN**, *in addition to the quality number*, is cast on all the Butts they purchase—**NONE OTHERS ARE GENUINE.** These numbers were **ORIGINALLY ADOPTED BY B. S. & CO.** to distinguish the different qualities, but since these Butts have obtained favour with consumers, the numbers have been copied by other makers. They are now registered as their

TRADE MARK

AS

BALDWIN 200	BALDWIN 333	BALDWIN 564

MANUFACTURERS *also of the Improved Cast Tinned Kitchen Furniture—Saucepan Covers are now made stamped from One sheet of Steel; also of an Improved White Enamelled Cast-Iron Kitchen Furniture; and of the New Mottled Cast-Iron Enamelled Holloware in all their various branches; Improved Box, Flanch, and Portable Coffee Mills; Door Knockers, Scrapers, Porters, Hat, Coat and Umbrella Stands, and Carpenters' and Builders' General Ironmongery.*

LONDON OFFICE: No. 23, HOLBORN VIADUCT, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

J. H. BUTLER,

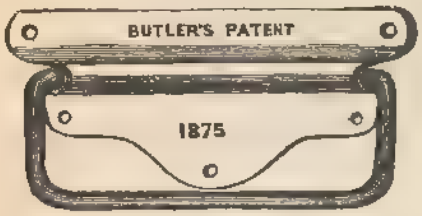
BELL WORKS, BELL STREET, WOLVERHAMPTON,

Established 1828.

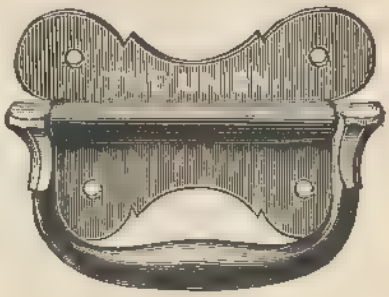
MANUFACTURER AND WHOLESALE IRONMONGER.

INVENTOR, PATENTEE, AND MANUFACTURER OF

BUTLER'S PATENT CHEST HANDLES.

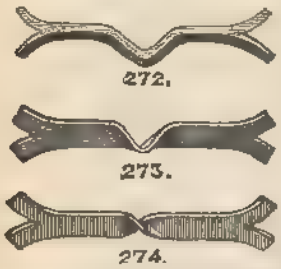


UNION CHEST HANDLES.

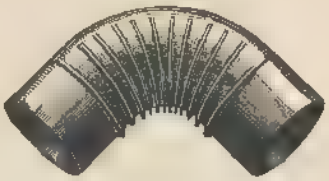


MANUFACTURER OF ALL KINDS OF

WROUGHT BALE TIES.



STOVE PIPE AND ELBOWS.



MANUFACTURER OF

Angle Brackets
Ash Pit Locks
" Latches
American Trunk Fittings
Bedstead Plates
Bucket Ears
Blind Brackets
Box Clips
Bow Latches
Box Hinges
Bails and Ears
Bale Ties
Basting Spoons
Bed Hooks and Eyes
Basket Fittings
Bolt Rooves
Cupboard Catches
Cornice Slides
Coffin Loops
Coffin Rings and Snipes
Carpet Rings
Chest Handles
Coal Tongs
Cork Clips
Cornice Screws
Casement Stays
Closet Latches
Chain Links
Corner Clips
Convex Washers
Card Table Centres
Coopers' Rivets
Dutch Rings
Drawer Handles
Escutcheons
Ears
Feather Springs
Fly Nuts
Fencing Staples
Fencing Clips
Glass Plates
Garden Eyes
" Labels
" Rakes
" Hoes
" Trowels
Holdfasts
Hasps and Staples
Hooks and Staples
Hat and Coat Hooks
Iron Heaters
Iron Stands
Kettle Ears
Line Hooks
Latch Escutcheons
Linch Pins
Organ Squares
Pipe Hooks
" Nails
Plate Rings
Roller Ends
Rim Latches
Rivets
Raidisseurs
Shelf Brackets
Sash Brackets
Stay Brackets
Screw Eyes
Sash L's
Shutter L's
Sash T's
Shutter Corners
" Shoes
Stubs and Plates
Saucepan Handles
Straining Bolts
Spout Brackets
Sash Centres
Shutter Stubs and Plates
Shoe Lifts
Trunk Banding
" Hinges
Table Catches
" Plates
Trunk Hasps
" Rollers
Ticket Holders
Venetian Brackets
Vine Eyes
Ventilators
Wall Eyes
Wine Case Hinges
Wall Ties
Etc., Etc.

And all kinds of FITTINGS for IRON AND TIN PLATE WORKERS, ENGINEERS, BRASSFOUNDERS, BUILDERS, &c.

DEALER IN ALL KINDS OF

GRATES, RANGES, CHIMNEY PIECES, BUILDERS' IRONMONGERY, TOOLS, CUTLERY, ELECTRO-PLATE & FURNISHING IRONMONGERY.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

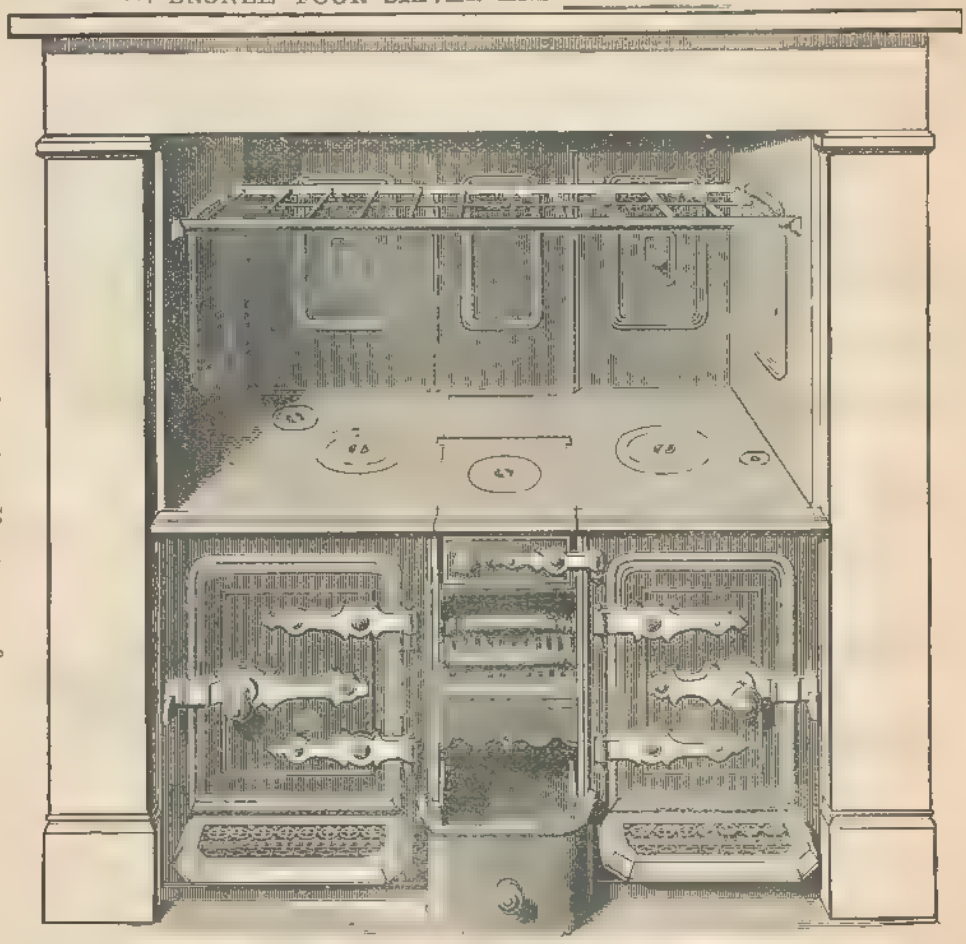
BROWN & GREEN, LTD.,

LUTON; and 69 to 71, FINSBURY PAVEMENT, LONDON.

THE ORIGINAL PATENTEES OF CLOSE FIRE KITCHENERS, & MANUFACTURERS OF THE GEM PORTABLE COOKING STOVE.

FIVE BRONZE FOUR SILVER AND EIGHT GOLD MEDALS

4 ft. KITCHENER, Left-hand Oven, 15¼ × 19 × 19". Right-hand " 13½ × 19 × 19". Wide High Deep. Fire 10 in Price £10 10s.



4 ft. 6 in. KITCHENER, Left-hand Oven, 15¼ × 19 × 19". Right hand " 15¼ × 19 × 19". Wide High Deep. Fire 12 in Price £12 10s.

No 70—**Strong Double Oven Kitchener**, with High Pressure Boiler Covings and Plate Rack. Enclosure plate with Register door, &c., complete, extra finish. Kitchener, 29-ins high, Covings, 28½-ins. Hot plate, 20 ins.

BROWN & GREEN'S

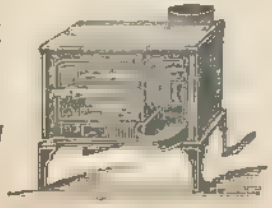
NEW GEM COOKING STOVE "No 50."

CONVERTIBLE INTO OPEN OR CLOSE FIRE AT PLEASURE.

Requires no Brickwork

Burns Coal or Wood

Consumes a remarkably small quantity of Fuel.



Cures Smoky Chimneys

The Best and most Economical Stove.

NEW CHURCH STOVES.

UNRIVALLED

VENTILATING, DWARF,

AND OTHER

STOVES,

FOR

CHURCHES, HALLS, SCHOOLS, GREENHOUSES BEDROOMS, ETC.

Manufacturers of Prize Medal Kitcheners, Register and other Stoves

ILLUSTRATIONS & PRICES POST FREE.

BROWN & GREEN, Limited, Luton; and 69 to 71, Finsbury Pavement, LONDON.

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For WALL TIES.

PRIZE MEDAL, 1884.

PRIZE MEDAL, 1884.

GOLD MEDAL, 1885.

SILVER MEDAL, 1886.

For STOVES and RANGES.

CHAMBERS, MONNERY & Co.

WHOLESALE IRONMONGERS,
41, BISHOPSGATE STREET WITHOUT, LONDON, E.C.

WALL TIES.
Twenty Tons in Stock

CAST IRON.
No. 41.

MONNERY'S PATENT.

WROUGHT IRON.
No. 2

No. 3.

No 6.

Any of the above altered, and any pattern made to order.

IRON MANTELS & OVER MANTELS.

MARBLE & SLATE MANTELS.

"BISHOPSGATE" SMOKE PREVENTING REGISTER STOVE.

This Grate is constructed to give great heating power, with a very small consumption of Fuel, by its heat-reverberating principle. Is partially smoke consuming and will burn almost any kind of coal. Smoky chimneys, back draughts, and blow-downs, are, by the nature of its construction, almost impossible. By the Air Regulating Fret placed under the Fire combustion can be regulated to any degree. Special facilities are given for clearing out the flues, and sweeping of chimneys is almost dispensed with.

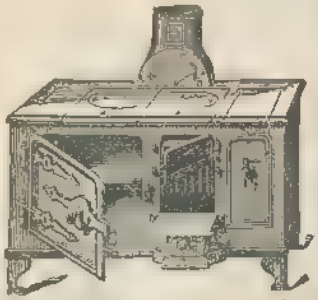
Plain Register and Tile Stoves with quick or slow combustion fires, with projecting or recess hobs, &c., &c

Mantel Registers with Overmantels Tiled Hearths, Tiles for Lavatories Entrance Halls, &c

"The Bishopsgate"

SELF SETTING, QUICK LIGHTING, ECONOMICAL STOVE.

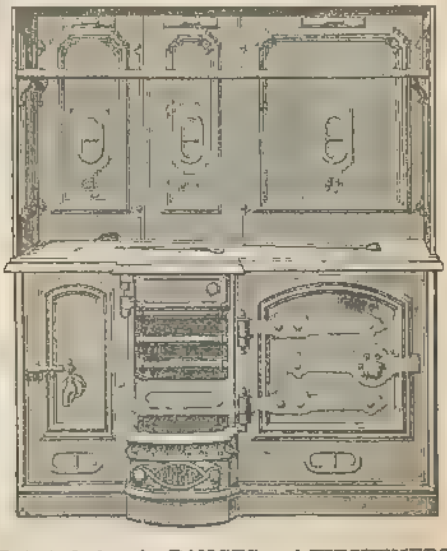
Improved Nozzle with Soot Door. Improved Lift-Out Boiler.



VERY USEFUL AS AN AUXILIARY TO THE LARGER RANGE.

Made in 11 Sizes, from 20 in. Oven and Sham, to 42 in. Oven and Boiler.

All 23 in. high, and 17 in. deep.



Latest designs in RANGES and KITCHENERS, Self-setting, Open and Close Fire, Smoke preventing, Adjustable Fires, &c.

EVERY DESCRIPTION OF BUILDERS IRONMONGERY at LOW PRICES *WRITE FOR CATALOGUE.*

SHOW-ROOMS for all the above—Five Minutes from Bank of England, and Two Minutes from Liverpool Street and Broad Street Railway Stations.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

MELBOURNE INTERNATIONAL EXHIBITION, 1880-81, the ONLY GOLD MEDAL, in addition to FIRST-CLASS HONOURS; ADELAIDE INTERNATIONAL EXHIBITION, 1887, the FIRST ORDER OF MERIT, were awarded to

JAMES CARTLAND & SON

Manufacturers of every description of

Cabinet, Builders', Furnishing, and Naval Brass Foundry,

BIRMINGHAM.

LONDON SHOW ROOMS · 57, HOLBORN VIADUCT, E.C.

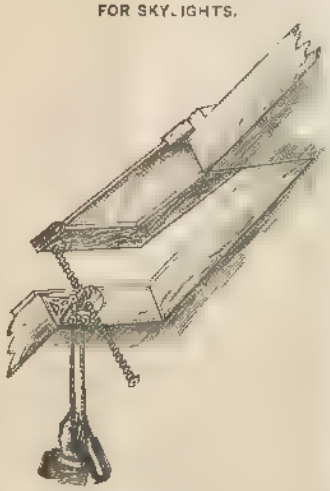
N.B. Complete Suites of all kinds of Furnishing Brassfoundry, and Working Models of all Specialities, may be seen at our New Show Rooms, 57, HOLBORN VIADUCT. Buyers are respectfully invited to inspect same.

SPECIALITIES:

PRESTON'S PATENT SCREW ADJUSTMENT

For Opening, Closing, and Securely Fastening Windows, Fanlights, Casements, Skylights, &c.

FOR SKYLIGHTS.



A746. ½ in. rod × 18 in. .. .. 13/- each

Lighter.

A865. ⅜ in. rod × 12 in. .. .. 9/6 ,,

A749. ½ in. rod × 18 in. All Brass .. 11/6 each
,, Brass Wheel, Iron Fittings .. .. 10/0 ,,

Lighter.

A866. ⅜ in. rod × 12 in. All Brass .. 8/0 ,,
,, Brass Wheel, Iron Fittings .. .. 7/6 ,,

A748. ½ in. rod × 18 in. 11/6 each

Lighter.

A864. ⅜ in. rod × 12 in. .. 8/0 ,,

NOTICE. This thoroughly efficient Screw Adjustment provides for opening, closing, and securely fastening Fanlights, Casements, Skylights, &c., and will by its extreme simplicity commend itself to Architects, Builders, &c. An endless cord passing over a grooved pulley and worked by hand, causes the box to travel on screw, carrying the Sash along with it to the required distance, and remaining securely locked at any angle. The action is perfectly easy, and a child can adjust it.

ROWLAND'S PATENT "CLIMAX" UMBRELLA HOLDERS AND PANS.

The action is very simple, effective, and noiseless. Pressing the Umbrella Handle gently against the spring levers allows it to pass into the aperture, and is held there secure. It takes up very little room, only projecting 4 inches, and can be made for any number of Umbrellas.

		1	2	3	4	5	6	holes
Iron Brown Bronzed ..	728	10/6	15/0	20/0	25/0	30/0	36/0	per doz.
Polished Brass	729	48/0	60/0	72/0	80/0	108/0	126/0	,,

	9	12	14	ins.
765	12/0	16/0	18/0	per doz.

Working Models of any of the above Specialities may be seen at LONDON SHOW ROOMS, 57, HOLBORN VIADUCT, E.C

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

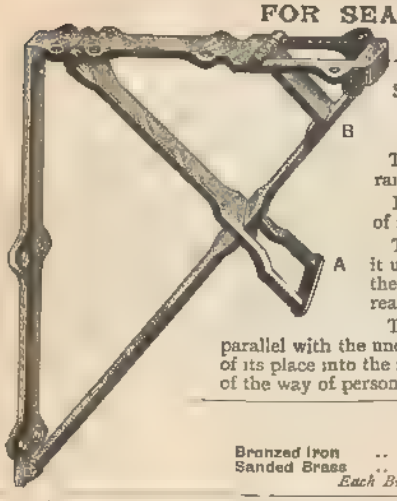
JAMES CARTLAND & SON, BIRMINGHAM,

Specialities.

GROOMBRIDGE'S PATENT SELF-ADJUSTING BRACKET

FOR SEATS, SHELVES, TABLES, ETC.

Bracket when Seat is up and fixed.



Specially adapted for use in Churches, Chapels Schools Theatres, Public Buildings, Tram Cars, Railway Carriages Steam Ships, Yachts, &c and all places where space is limited.

THE ADVANTAGES of this Patent Bracket are that it can be raised or lowered by the action of only one hand.

It is automatic and perfect in action, and the extreme simplicity of its arrangements prevents any possibility of its getting out of order

The seat or flap is raised to an elevated position by simply lifting it up, thus causing the hinge bar to become upright and rigid, when the cross support automatically adjusts itself, and the seat or table is ready for use.

The seat is lowered by lifting the cross support A until it is parallel with the under part of the seat flap, thereby pushing the smaller strut B out of its place into the recess, and the seat or flap falls at once into its position, and out of the way of persons passing by.

Bracket when Seat is folded down.

LIST OF PRICES. No 1540.

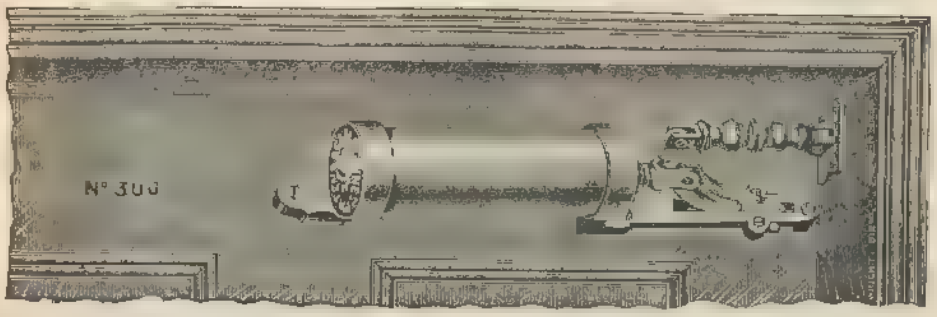
	8	10½	12	14	16	inches
Bronzed Iron	6/6	7/6	8/6	9/6	10/6	each.
Sanded Brass	10/0	12/0	14/0	16/0	18/0	"

Each Bracket is sent complete with one pair of hinges for fixing.

THE "LEEDS" ATMOSPHERIC DOOR CHECK AND SPRING (BEAN & GAINE'S PATENT).

To close Doors automatically without Noise, and to prevent breaking of Glass.

These Springs are suitable for either right or left hand doors



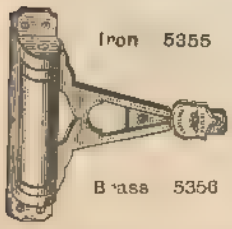
This engraving represents a door closed with a Leeds Spring, No. 300, for a door opening from you.

LIST OF PRICES OF NICKEL-PLATED SPRINGS, Nos 100, 200 and 300.

No. 0.	3½ in. Barrel, suitable for very heavy doors, not exceeding 4 ft. 0 in. wide × 2 in. thick					No. 0, 30/0	each
" 1.	3 " " " heavy " " 3 ft. 6 in. " 3 in.					" 1, 26/0	"
" 2	2½ " " " " " 2 ft. 8 in. " 2 in.					" 2, 22/0	"
" 3	2 " " " medium " " 2 ft. 6 in. " 1¾ in.					" 3, 18/0	"
" 4.	1¾ " " " light doors					" 4. 16/0	"
" 5	1½ " " " very light doors					" 5, 14/0	"

Each Spring is packed in cartoon box, complete with screws and oil can, and directions for fixing.

CARTLAND'S PATENT HELICAL CLIMAX DOOR SPRINGS & HINGES.



	per doz
Iron 5355	3 13/6
	3½ 16/0
	4 18/0
	5 24/0
	6 30/0
Brass 5356	3 22/0
	3½ 25/0
	4 29/0
	5 38/0
	6 47/0

Iron. 5353.

Brass. 5354.

	per pr.
3	3/6
3½	4/6
4	5/6
4½	6/0
5	6/8
3	5/6
3½	7/0
4	8/6
4½	10/0
5	11/8

			each
Light Doors.	2858,	1¾ shoe	14/6
Medium	2860	" "	20/0
Heavy "	2862,	2¼ "	28/0

Light Doors.	2405,	1¾ shoe	18/0 each
Medium "	2406	" "	25/0 "
Heavy "	2407	2¼ "	30/0 "
Very powerful	2404	for public buildings, with any size shoe	60/0 "

CAUTION

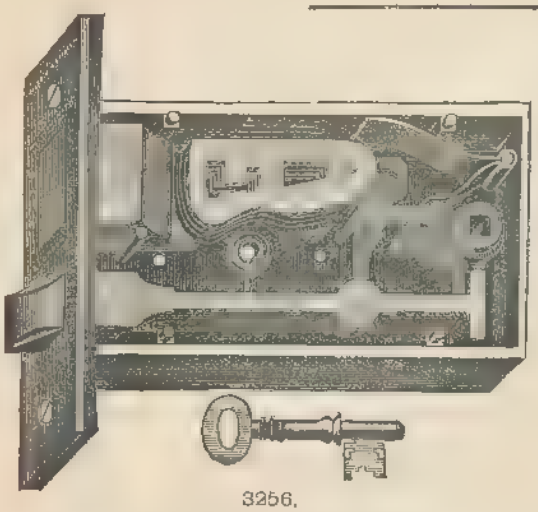
Merchants, Ironmongers Builders and others, are requested to see that the Trade Mark is on each Spring, as the Patentees are informed that spurious imitations of the Climax Spring Hinges are being sold, which have neither the POWER or DURABILITY of CARTLAND'S Patent Spring Hinges.

Working Model of any of the above Specialities may be seen at LONDON SHOW ROOMS, 57, HOLBORN VIADUCT, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

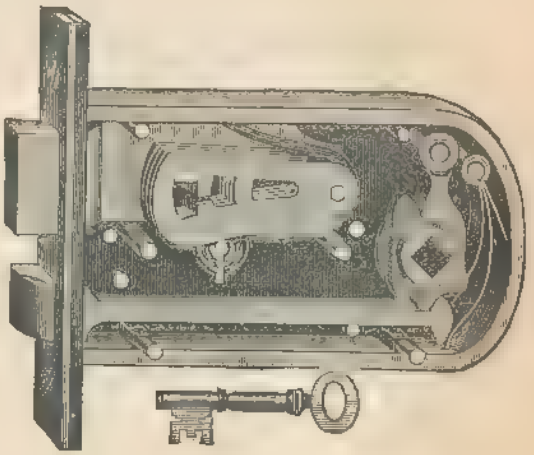
COLLEDGE & BRIDGEN,

Telegraphic Address:— COLLEDGE, WOLVERHAMPTON. **WOLVERHAMPTON.** *London Office:—* 49, FINSBURY PAVEMENT E.C.



3256.

4-LEVER MORTISE.

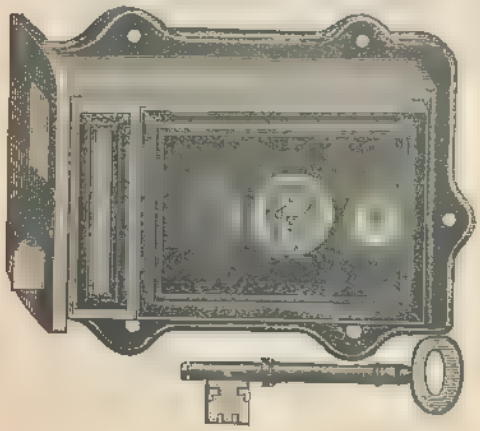


3272.

4-LEVER MORTISE.

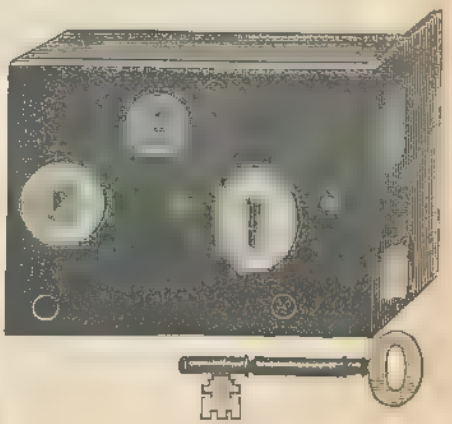
3259	2-Lever, Brass Bolt, Gun Metal Bushed, Steel Follower ..	6in × ⅝in.,	6/3 each	..	7in. × ⅝in	8 0 each.
3256	4 Lever " " " ..	6in × ⅝in.,	8/0 "	..	7in × ⅝in	9 "
3269.	4-Lever Gun Metal Bolts " " Extra Strong	6in × ⅝in,	10/9 "	..	7in	13 0 "
3270.	6-Lever " " " for BANKS, &c.	6in × ⅝in.	15/6 "	..	7in × ⅝in	17 6 "
3271	2-Lever Brass Bolt, Gun Metal Bushed, Round End, Steel Follower	6in × ⅝in,	6/3 "	..	7in. × ⅝in	8 0 "
3272	4-Lever " " "	6in × ⅝in,	7/6 "	..	7in. × ⅝in	9 3 "
3206.	Brass Bolt, Steel Follower, Bushed, Round End	6in × 9/16in	3/9 "	..	7in. × ⅝in.	5 6 "
3251	Brass Bolt, 2-Lever, Steel Follower, Bushed, Round End ..	6in × 9/16in	4/9 "	..	7in × ⅝in	6 6 "

NOTE. All our Locks are Best Hand Made, and have our Name and Number on face plate.



174.

RIM.



175.

RIM.

		6	7	8 INCH			6	7	8 INCH
174	1-Lever Iron Bolt	2/3	3/9	5/0 each.	175.	Strong Brass Bolt, Bushed ..	4 0	4 8	6 0 each
174	2-Lever Brass Bolt	3/3	4/3	5/9 "	207.	" Solid Ward	4 4	5 0	6 6 "
174.	2-Lever, all Brass, Polished..	10/0	—	— "	208.	" 4-Lever ..	8 0	9 6	11/6

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COLLEDGE & BRIDGEN,

Telegraphic Address. — COLLEDGE WOLVERHAMPTON

WOLVERHAMPTON.

London Office — 49 FINSBURY PAVEMENT, E C

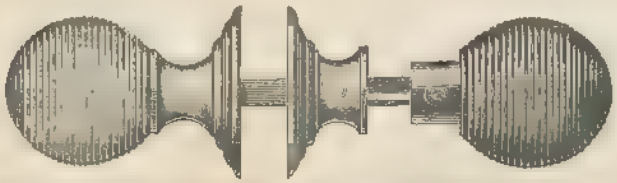
IMPROVED 101 LOCK FURNITURE.

THE BEST AND SIMPLEST MADE.

172

RIM.

	1¾	2	2¼ in
Brass ..	2 9	3.6.	4 9 set
Ebony, Oak, or Cocus.		2/9.	3/3 ,,

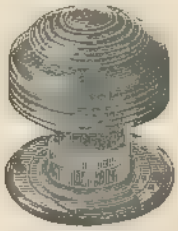


172

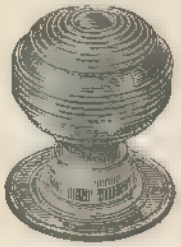
MORTISE.

	1¾	2	2¼ in.
Brass ..	3/6.	4/0	5 6 set
Ebony, Oak, or Cocus		2/9.	3/9 ,,

160/101.
2¼in , 2 0. 2½in , 2/9, set

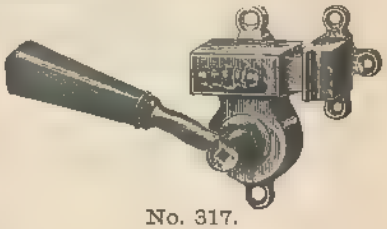


709/101.
2¼in 3/0 2½in 4/0, set



713/101.
2¼in 3.0, 2½in 4 0, set

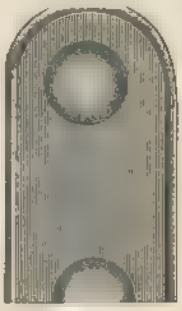
Ebony, Oak, or Cocus Lock Furniture all same Prices.



No. 317.
BEST NICKEL PLATED
SHOP DOOR LATCH.
BUFFALO HORN HANDLES.
12/6 each.

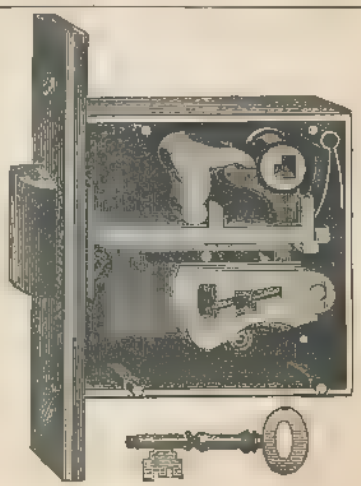
143
1 4 each

144.
1/8 each.



142
1,4 each

Ebony, Oak, or Cocus.



3281.—4 inch
BEST MORTISE FRONT DOOR LATCH.
FOUR LEVER.
10/0 each.

164/101.
2¼in , 3/0; 2½in , 4/0, set.

606/101
2¼in , 2/9; 2½in 3/9, set.

158/101
2¼in , 2/0; 2½in., 2/9 set.

Ebony, Oak, or Cocus Lock Furniture all same Prices

Brass Foundry of every description. Door Springs, Best Axle Pullies, Stoves and Ranges, and General Builders' Ironmongery of the very best quality. Lists on application.

☞ *ARCHITECTS' SPECIAL DESIGNS CARRIED OUT WITH CARE AND ATTENTION.*

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

COZENS & SHAW,

(Late HENRY BANKS)

Wholesale Furnishing & Builders' Ironmongers,

DUDLEY STREET, WOLVERHAMPTON.

REGISTER GRATES, STOVES AND RANGES OF EVERY DESCRIPTION.

The "ABBOTSFORD," "CAMBRIDGE," "MARLBOROUGH," "CUPOLA,"
The "SANDRINGHAM," with Descending Canopy forming a Blower, Solid Firebrick Back and Sides.
Also CROSSTHWAITES' REGISTERS, with Patent Moveable Canopy, &c. The LARBERT, and other Self-setting Ranges,

Agents for FIRE EXTINGUISHERS & APPLIANCES, also SOLE AGENTS for HINDLE NORTON & CO, for the "ACME" DOOR CHECK AND SPRING the "NORTON" DOOR CHECK AND SPRING, the "MERRITT" TYPEWRITER. Also the "CROWN JEWEL" STOVES, the "FULLFORD" GAS LAMP and "STRANGE'S AI" CRYSTAL OIL, the Purest and Best Refined PETROLEUM ever produced

A large Stock of MARBLE & ENAMELLED SLATE CHIMNEY PIECES, MARBLE & METAL CURBS, ENCAUSTIC MAJOLICA & TILE HEARTHS in Great Variety.

Architects' Designs Carefully Carried out in Every Variety, and Estimates Given.

KITCHEN RANGE WORK, BELL HANGING, PLUMBING, GAS FITTING, HOT AND COLD WATER FITTERS.
EXPERIENCED WORKMEN IN THE VARIOUS BRANCHES

Estimates Given for all kinds of IRONWORK, RANGES, GRATES, BATHS, WATER CLOSETS, LIFT & FORCE PUMPS
And Spouting Fitted and Fixed by experienced Workmen in any part of the Country.

PATENT DOUBLE-POINTED FENCE NAIL.

CANNOT BE EXTRACTED OR BROKEN.

Vide Press Notices—*The Field, Builder, Agriculture, Ironmonger, Inventions, &c.*

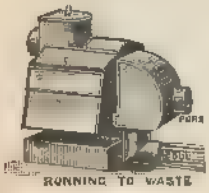
A. HAMMER HEAD. *B.* CHISEL EDGE.

Sizes:—2, 3, 4, 5, and 6 ins. Sold in 7 lb. Bags, 3s. 6d.; per cwt., £2 15s., by

DURRANS' PATENTS SYNDICATE,

43, UPPER BAKER STREET, LONDON, N.W.

N.B.—See separate Price List for Cut Steel Secret Nails. 1¾ in., 9d. per gross.



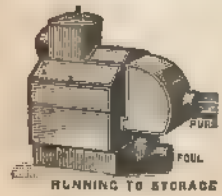
C.G.ROBERTS,

HASLEMERE, SURREY.

Silver Medal at Health Exhibition, 1884
Medal of Architects' Society, 1887.

THE

Rain Water Separator



Prevents the first portion of the rainfall passing into the storing tank. It cants and stores the water when the roof has been washed by the rain.

PRICE from £2 15s. to £6 5s.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CHATWOOD'S PATENT SAFE & LOCK CO.,

LIMITED.

SAMUEL CHATWOOD, Bankers' Engineer, Managing Director.

MANUFACTORY·

Lancashire Safe & Lock Works,

BOLTON.

DEPOTS

76, NEWGATE STREET, LONDON, E.C.

11, CROSS STREET, MANCHESTER.

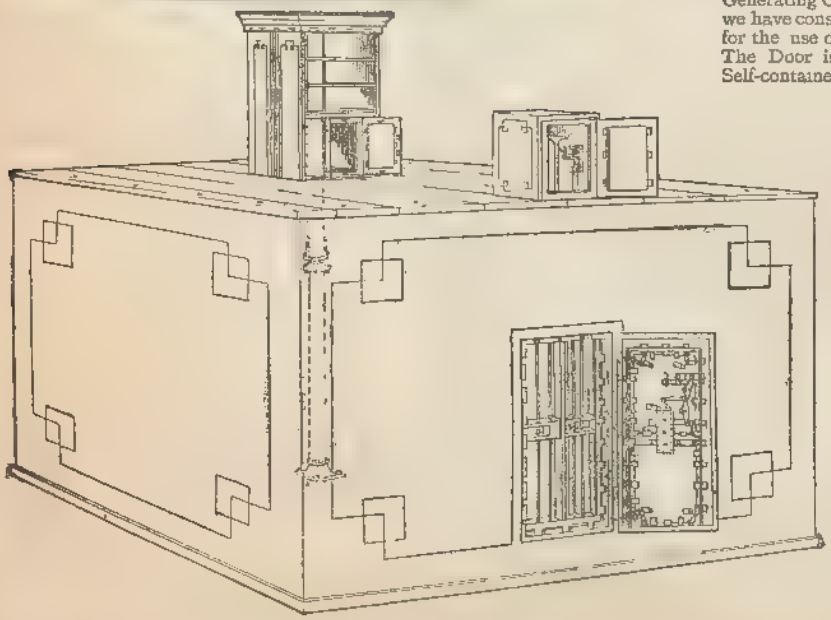
22, BOND STREET, LEEDS.

Telegraphic Addresses· "CHATWOOD, LONDON," "CHATWOOD, LEEDS," "CHATWOOD, MANCHESTER," "CHATWOOD, BOLTON."

BANKERS' STEEL STRONG ROOMS.

This Engraving represents CHATWOOD'S PATENT COMPOUND SELF-CONTAINED BANKERS' STEEL STRONG ROOM.

It is built up of two Strong Steel Shells connected by Rolled Steel Girders, with truly planed tables, to which the outer and inner shells are secured, rivetted, and screwed with cone head rivets and screws (which leave the outer and inner surfaces fair and smooth), thus making the two shells structurally one Strong Room. The space between the two is filled with best Steam Generating Composition Strong rooms of this type we have constructed not only for Bankers' use, but for the use of Insurance Offices, and Merchants. The Door is provided with Chatwood's Patent Self-contained Safety Door, which is equivalent to a second door for use in cases of accident, and also with Folding Ventilating Gates, which are fitted with Chatwood's Patent Self-fasteners.



CHATWOOD'S PATENT SAFE & LOCK COMPANY, LIMITED, erected the first Steel Strong Room ever built. They have also erected the largest Steel Strong Room in the world.

Mr. Chatwood having made Bank security arrangements his special study for upwards of twenty-five years, will be happy to meet Bankers or their Architects for consultation, and to supply drawings and estimates of all kinds of Bank work for security or convenience.

Chatwood's Patent Plate Chests and Safes, Fire Resisting Deed Boxes, Key Boxes, Key Cupboards, Jewel Chests, Black Japanned Deed Boxes, Paper Boxes, Dispatch Boxes, Cabinets for Letters, and Cash Boxes.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CHATWOOD'S PATENT SAFE & LOCK COMPANY, LIMITED,

76, NEWGATE STREET, LONDON, E.C.;
11, CROSS STREET, MANCHESTER;
22, BOND STREET, LEEDS.

MANUFACTORY:
LANCASHIRE SAFE AND LOCK WORKS, BOLTON.

MANAGING DIRECTOR—
SAMUEL CHATWOOD, Bankers' Engineer.

Chatwood's List 3 Door with Grip Frame.

List 3 **CHATWOOD'S TREBLE PATENT FIRE AND THIEF-RESISTING DOORS** have Grip Frames of best wrought iron.

No.	Dimensions. Outside of Frame. Height.	Width.	"Horn" Frame. £ s. d.	With Chatwood's "Grip" Frame, as described above £ s. d.
1	5ft 6in	2ft 6in	.. 22 10 0	.. 25 0 0
2	6 0	2 6	.. 24 15 0	.. 27 10 0
3	6 0	3 0	.. 28 5 0	.. 31 10 0
4	6 6	3 0	.. 31 0 0	.. 34 10 0
5	7 0	3 0	.. 33 15 0	.. 37 10 0

List. 4A. **CHATWOOD'S PATENT FIRE-RESISTING AND BURGLAR-PROOF DOORS,** with "Grip Frame."

This quality is strongly recommended for the strong rooms of mansions and the book rooms of banks, where the fire-brick wall does not exceed two feet in thickness. The door is built up of best steel plates, ⅝ in. thick, with Chatwood's Patent Compound Drill and Hammer-proof Steel Plates, ⅜ in. thick, between the outer plate and the main bolt and lock work, making a solid mass of steel 1¼ in. in thickness. The door is strengthened with Chatwood's Patent "Solid-Flange" Lock Case of best Steel.

NET PRICES, WITHOUT GATES.

No.	Dimensions. Outside of Frame.	List 4A. Straight Bolts. £ s.	List 5 Chatwood's Patent Dovetail Sliding Claw Bolts front and back. £ s.
2	6ft. 0in × 2ft 6in.	45 10 ..	54 10
3	6 0 „ 3 0	51 0 ..	61 0
4	6 6 „ 3 0	55 0 ..	66 0
5	7 0 „ 3 0	60 15 ..	72 15

List 6 **CHATWOOD'S PATENT FIRE-RESISTING AND BURGLAR-PROOF COMPOUND STEEL DOOR,** fitted with "Grip Frame" to embrace entire wall, thus forming a lining to passage into strong room. The outer plate of this door is of best steel, ⅝ in. thick, with inner plate of Chatwood's Patent Compound Drill and Hammer-proof Steel, ⅜ in. thick, and in addition a second layer of the same steel ⅝ in. thick over the lock work, making in all a mass of compound steel two inches thick. The door is strengthened with Chatwood's Patent "Solid-Flange Lock Case" of best steel.

List 7. **CHATWOOD'S PATENT STRONG ROOM DOORS** of this class are of the same construction as those of List 6, with the exception that they are provided with Chatwood's Patent Dovetail "Claw" Bolts at front and back instead of the parallel bolts.

NET PRICES WITHOUT GATES.

No.	Dimensions Outside of Frame.	List 6 Straight Bolts. £ s.	List 7. Chatwood's Patent Dovetail Sliding Claw Bolts at front and back. £ s.
2	6ft 0in × 2ft 6in	85 0 ..	107 10
3	6 0 3 0	90 0 ..	112 10
4	6 6 3 0	98 0 ..	122 10
5	7 0 3 0	110 0 ..	137 10

This Engraving shows Chatwood's List 8 Door and Frame, fitted with Folding Ventilating Gate

List 8 Quality (New Series). **CHATWOOD'S OCTUPLE PATENT "INTERSECTED" STEEL DOORS,** with **"GRIP FRAME"** and **VENTILATING GATES.**

The door is made 3 in. thick, of conically intersected hard and soft steel, with curvilinear or Ogee edge, fitted into Ogee recess in the T frame (thus rendering wedges inoperative), and is fitted with Chatwood's Patent "Solid Flange" Lock Case of best Steel.

No.	Dimensions. Outside of frame.	£ s.
1	5ft 6in × 2ft 6in	151 5
2	6 0 „ 2 6	178 15
3	6 0 „ 3 0	199 5
4	6 6 „ 2 6	199 5
5	6 6 3 0	220 0
6	7 0 „ 3 0	240 10

CHATWOOD'S PATENT SINGLE AND DOUBLE VENTILATING GATES.

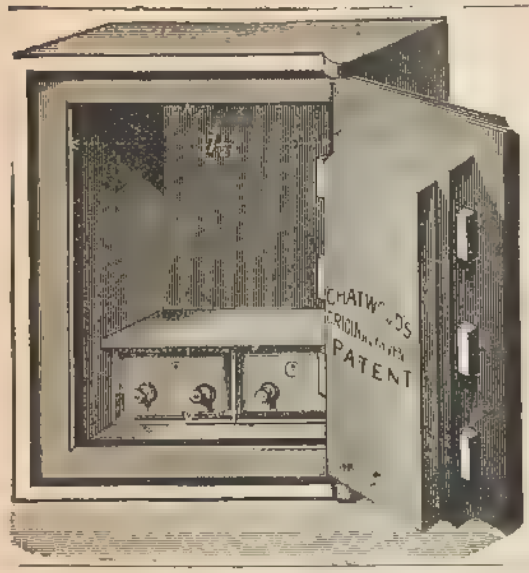
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CHATWOOD'S PATENT SAFE & LOCK COMPANY, LIMITED,

76, NEWGATE STREET LONDON E C 11 CROSS STREET, MANCHESTER 22 BOND STREET LEEDS

Manufactory: LANCASHIRE SAFE AND LOCK WORKS, BOLTON.

SAMUEL CHATWOOD, Bankers' Engineer, Managing Director.



CHATWOOD'S FIRE, FALL, & THIEF-RESISTING SAFES.

List 3. Chatwood's Treble Patent Safes are manufactured on the principles invented and patented by Mr Chatwood The outer bodies are strongly constructed of best wrought-iron boiler plates, ¼ in to ⅜ in. thick, firmly united at all corners by machine-fitted dovetails and strong angle iron, and strengthened all round in front by Chatwood's Patent T Girder frame. The doors are formed of best boiler plates, ½ in. thick, which are strengthened by Chatwood s Patent Solid Flange Lock Case.

LIST 3 QUALITY, FIRE, FALL, AND THIEF-RESISTING.

SINGLE DOORS.	Outside Measure.					Net Prices. Without Drawers, &c. List 3.		
No.	High		Wide		Deep.	£	s.	d.
1	24	by	18	by	18	13	5	0
2	26	,,	20	,,	20	16	10	0
3	28	,,	22	,,	22	19	15	0
4	30	,,	24	,,	24	23	0	0
5	33	,,	25	,,	24	26	7	0
6	36	,,	26	,,	24	29	10	0
7	42	,,	26	,,	24	33	0	0
8	48	,,	28	,,	26	38	0	0
9	54	,,	30	,,	26	43	5	0
10	60	,,	30	,,	26	47	5	0
11	60	,,	33	,,	28	52	0	0

DOUBLE DOORS.	Outside Measure.					Net Prices. Without Drawers, &c. List 3.		
No.	High.		Wide.		Deep.	£	s.	d.
12	30	by	30	by	24	32	2	6
14	36	,,	36	,,	28	44	0	0
16	48	,,	38	,,	28	60	0	0
17	54	,,	40	,,	30	68	0	0
18	60	,,	48	,,	30	82	10	0
19	66		54	,,	30	96	10	0
20	72	,,	60	,,	30	109	17	6

The inside measurements are 7½ in. less in height and width and 9 in. less in depth than outside dimensions given.

CHATWOOD'S PATENT FIRE, FALL, AND BURGLAR-PROOF SAFES.

Chatwood's Safes of LIST 4a quality are constructed in the strongest possible manner. The bodies are constructed of ½ in best boiler plates. The plates of which the bodies are constructed are united at each angle by machine-fitted dovetails, and further strengthened by strong angle irons, riveted to sides, back, top, and bottom by cone-headed rivets. By this method of construction the body of the Safe becomes practically solid. The bodies are fitted with Chatwood's Patent Tee Girder Frame, which, when used in combination with Chatwood's Patent "Solid-Flange" Lock Case with which the doors are fitted, is the only really efficient wedge guard ever invented. The Doors are constructed of best boiler plate ⅝ in. thick, to which are attached plates of Chatwood's Patent Unbrillable Compound Steel, ⅝ in. thick, making a total thickness over the bolts and lock-work of 2½ in.

SINGLE DOORS, Outside Measure					Net Prices. Without Drawers, &c. List 4A.		
No.	High		Wide		Deep.	£	s.	d.
1	24	by	18	by	18	20	10	6
2	26	,,	20	,,	20	23	15	0
3	28	,,	22	,,	22	30	0	0
4	30	,,	24	,,	24	35	0	0
5	33		26	,,	24	40	0	0
6	36	,,	26	,,	24	42	10	0
7	42	,,	26		24	47	10	0
8	48	,,	28	,,	26	57	10	0
9	54	,,	30	,,	26	66	5	0
10	60	,,	30	,,	26	72	10	0
11	60	,,	33		28	78	15	0

DOUBLE DOORS. Outside Measure,						Net Prices Without Drawers, &c. List 4A.		
No.	High.		Wide.		Deep.	£	s.	d.
14	36	by	36	by	28	65	0	0
16	48	,,	38	,,	28	83	15	0
17	54	,,	40	,,	30	97	10	0
18	60		48	,,	30	118	15	0
19	66	,,	54	,,	30	138	0	0
20	72	,,	60	,,	30	158	15	0

Inside Dimensions 9 in. less in height and width, and 11 in. less in depth

CHATWOOD'S COMPOUND STEEL SAFES, LIST 6 QUALITY,

Are specially designed for exposed situations where considerable amounts of portable property have to be preserved. The bodies are made of best boiler plates ¼ in. thick, and the thinner parts made of best boiler plates ⅜ in. thick, and are riveted at all corners and throughout with Chatwood's Patent Compound Steel, hammer and drill proof plates, ⅜ in. thick, strong angle strengthening frames are also provided at each corner. The front edges of the Safes are further strengthened by Chatwood's Patent Tee Girder Frame, which passes on all sides.

The doors are made of best steel plates, ⅝ in. thick, and also of Chatwood's Patent Compound Steel Hammer and Drill Proof Plates ⅜ in. thick, with additional plates of same ⅜ in. thick over locks. These doors are strengthened by Chatwood's Patent Solid Flange Lock Cases, ⅝ in. to ½ in. thick, of best steel, making thickness in vital parts 1¾ in. and 2 in. and in non-vital parts not less than 1½ in. and drill and hammer proof throughout.

SINGLE DOORS.	Outside Dimensions.					List 6, with Parallel Bolts front and back.		
No.	High.		Wide.		Deep.	£	s.	d.
4	30	by	24	by	24	56	0	0
5	33	,,	26	,,	24	64	0	0
6	36	,,	26		24	68	0	0
7	42	,,	26	,,	24	86	0	0
8	48	,,	28	,,	26	97	0	0
9	54	,,	30	,,	26	108	0	0
10	60	,,	30	,,	26	116	0	0
11	60	,,	33	,,	28	126	0	0

DOUBLE DOORS.	Outside Dimensions.					List 6, with Parallel Bolts front and back		
No.	High.		Wide.		Deep.	£	s.	d.
14	36	,,	36	,,	28	114	0	0
16	48	,,	38	,,	28	134	0	0
17	54	,,	40	,,	30	156	0	0
18	60	,,	48	,,	30	190	0	0
19	66	,,	54	,,	30	222	10	0
20	72	,,	60	,,	30	254	0	0

Inside dimensions 10 inches less in height and width, and 12 inches less in depth.

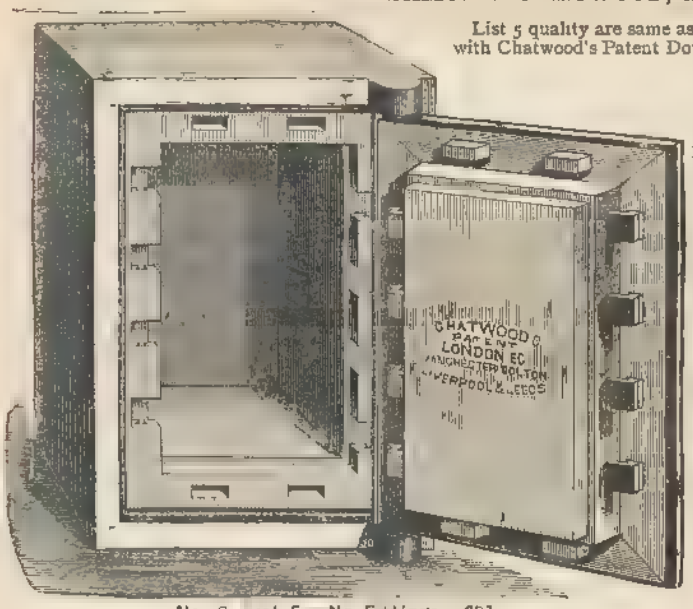
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CHATWOOD'S PATENT SAFE & LOCK COMPANY, LIMITED,

76, NEWGATE STREET, LONDON, E.C.; 11, CROSS STREET, MANCHESTER; 22, BOND STREET, LEEDS.

Manufactory—LANCASHIRE SAFE AND LOCK WORKS, BOLTON.

SAMUEL CHATWOOD, Bankers' Engineer, Managing Director.



No. 6, List 5—No Fittings, £51.

List 5 quality are same as List 4A in all respects, except that they are provided with Chatwood's Patent Dovetail Sliding Claw Bolts.

SINGLE DOORS.

No.	Outside Measure. High.	Wide.	Deep.	List 5. Chatwood's Patent "Claw Bolts" Net Prices. Without Drawers, &c. £	s.	d.
1	24 by	18 by	18	24	15	0
2	26	20	20	25	10	0
3	28	22	22	36	0	0
4	30	24	24	42	0	0
5	33	26	24	47	10	0
6	36	26	24	51	0	0
7	42	26	24	57	0	0
8	48	28	26	69	0	0
9	54	30	26	79	10	0
10	60	30	26	87	0	0
11	60	33	28	94	10	0

DOUBLE DOORS.

Outside Measure. No.	High.	Wide.	Deep.	£	s.	d.
14	36 by	36 by	28	78	0	0
16	48	38	28	100	15	0
17	54	40	30	117	10	0
18	60	48	30	142	15	0
19	66	54	30	176	0	0
20	72	60	30	190	15	0

List 7 have, instead of parallel bolts, Chatwood's Patent Dovetail Sliding Claw Bolts, but in every other respect are same as List 6 quality.

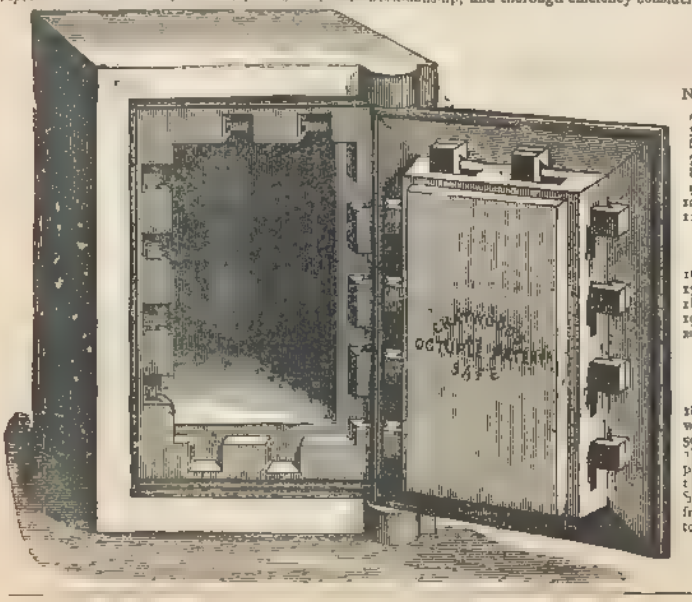
SINGLE DOORS.

No.	Outside Measure. High.	Wide.	Deep.	List 7, with Chatwood's Patent Dovetail Claw Bolts. £	s.	d.
4	30 by	24 by	24	70	0	0
5	33	26	24	80	0	0
6	36	26	24	85	0	0
7	42	26	24	95	0	0
8	48	28	26	115	0	0
9	54	30	26	132	10	0
10	60	30	26	145	0	0
11	60	33	28	157	10	0

DOUBLE DOORS.

Outside Measure. No.	High.	Wide.	Deep.	£	s.	d.
14	36 by	36 by	28	130	0	0
16	48	38	28	167	10	0
17	54	40	30	195	0	0
18	60	48	30	237	10	0
19	66	54	30	278	0	0
20	72	60	30	317	10	0

List 8 **CHATWOOD'S OCTUPLE-PATENT FIRE AND BURGLAR-PROOF SAFES,** 2 in. thick on all sides are constructed of Chatwood's Patent conically Intersected Steel, which stands alone in being absolutely unbreakable under any circumstances whatever. They are absolutely *solid* at every corner, and are fitted with Chatwood's Patent Titanic, 5 in. by 1¼ in. by 4½ in. by 18 in. Chatwood's Patent Solid Flange Lock Case from ⅜ in. to ½ in. thick; Chatwood's extra strong steel "Dovetail Claw Bolts" on every side, which being, by the action of the handle, caused to slide into dovetail recesses behind the projecting "mid Weld" of the T Frame, practically dove all the door and the body of the safe together, and Chatwood's Patent Curvilinear edged Door fitting into corresponding curves near seating in the sides and top and bottom of the safes, the claw bolts being secured by Chatwood's Patent Check Bolt, which is in its turn secured by Chatwood's Patent Composite Lock, the keyhole of which is covered by a steel shield controlled by Chatwood's "Invincible" Unpickable Gunpowder-proof Lock. This is vastly superior to the one which proved [illegible] at the celebrated International Safes Challenge Contest, at Paris, 1867, combining in the safe [illegible] Mr. Chatwood's patented improvements, the result of 25 years practical study of the application of scientific principles to Safe and Lock Manufacture. They are [illegible] Bankers, Diamond Merchants, and others having large amounts of valuables to protect, as *the most secure repos*[illegible] workmanship, and thorough efficiency considered, undoubtedly the cheapest.



SINGLE DOORS. NETT PRICES.

No.	Outside Dimensions. High.	Wide.	Deep.	Inside Dimensions. High.	Wide.	Deep.	List B. Price. £	s.	d.
4	30 by	24 by	24	28	by 12	by 10	140	0	0
5	33	26	24	31	14	10	158	0	0
6	36	26	24	34	14	10	168	10	0
7	42	26	24	30	14	10	189	5	0
8	48	28	26	36	16	12	233	10	0
9	54	30	26	42	18	12	254	5	0
10	60	30	26	48	18	12	286	10	0
11	60	33	28	48	21	14	318	10	0

DOUBLE DOORS.

16	48	38	28	36	26	14	356	0	0
17	54	40	30	42	28	16	415	10	0
18	60	48	30	48	36	16	504	0	0
19	66	54	30	54	42	16	585	10	0
20	72	60	30	60	48	16	675	0	0

PRICES OF FITTINGS.

One drawer up to 10 in. wide, 25/-; from 10 in. to 18 in., 30/-; 18 to 24 in., 35/- each. Two drawers in width up to 18 in., total width of pair, 40/-; from 18 in. to 24 in., 45/-; from 24 in. to 36 in., 50/-; and above 36 in., total width of pair, 60/- per pair. Drawers above 6 in. high proportionately extra. Single door cupboard same price as pair of drawers. Double-door cupboard, one-half more than single. Cupboards above 9 in. high proportionately extra. Shelves 10/- per foot in width. Partitions 10/- per foot in height, fractions charged as a foot. These safes can be made in any size to order. Prices on application.

Drawers or Cupboards not at top or bottom require extra Shelf, which will be charged for according to width.

CHATWOOD'S PATENT FIRE, FALL & BURGLAR-PROOF COMPOSITE SAFES. STANDS & CABINETS FOR SAFES.

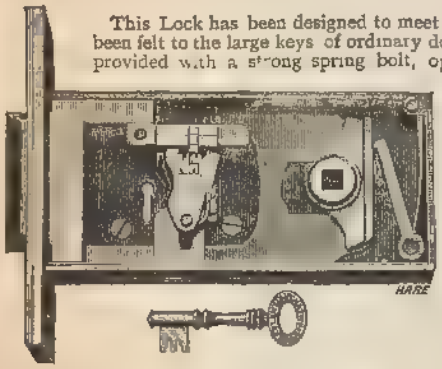
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CHATWOOD'S PATENT SAFE & LOCK COMPANY, LIMITED,

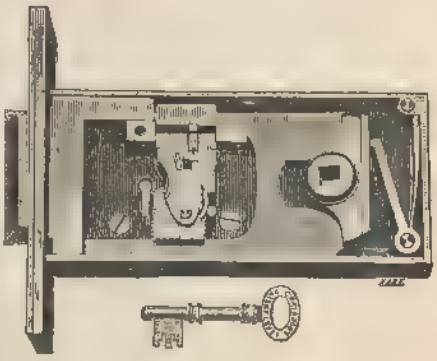
76, NEWGATE STREET, LONDON, E.C., 11 CROSS STREET, MANCHESTER · 22, BOND STREET, LEEDS
Manufactory: LANCASHIRE SAFE AND LOCK WORKS, BOLTON.
SAMUEL CHATWOOD, Bankers' Engineer, Managing Director.

CHATWOOD'S
PATENT "INVINCIBLE" AND HAND-MADE FOUR LEVER LOCKS.

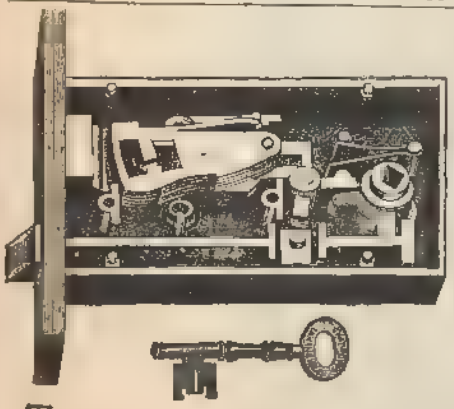
CHATWOOD'S PATENT COMPOUND ALL BRASS MORTISE LOCK, WITH SMALL KEYS.

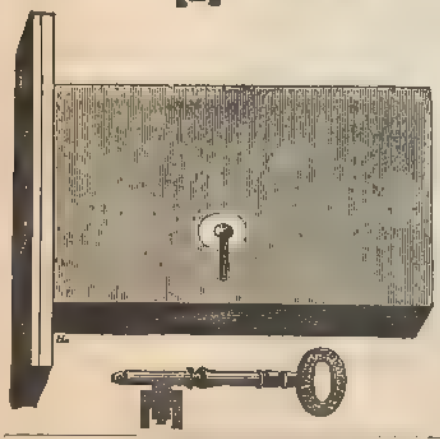


This Lock has been designed to meet the objection which has long been felt to the large keys of ordinary door locks. The Main Lock is provided with a strong spring bolt, operated by the knob and is blocked in the locked position by the bolt of a small subsidiary lock, which works at right angles to the bolt of the main lock (*on the principle of Safe Door Locks*). This bolt of the subsidiary lock acting only as a blocking piece to occupy, when locked, the space required for the traverse of the main bolt when unlocked, can only be subjected to compression, and can never throw strain on the working parts of the subsidiary lock.



We can confidently recommend these Locks as thoroughly sound and reliable, and not likely to get out of order. They are made of Brass throughout, and are supplied with two small keys each. PRICE, 6 in., 20/-; 8 in., 30/-





MORTISE DEAD LOCKS.

Sizes	1½	2	2½	3	3½	4	4½	5	5½	6	7	8
Four Lever ..	10/	10/-	10/-	10/6	10/6	10/6	11/-	11/6	12/-	13/-	14/-	16/6
"Invincible"	22/-	22/-	23/-	23/-	24/-	24/-	25/-	26/-	26/-	27/-	30/-	35/-

TWO BOLT MORTISE LOCKS.

With Reversible Latch Bolt to suit either hand

Sizes ..	..	..	..	4	4½	5	5½	6	7	8
Four Lever ..	..	..	..	14/-	14/6	15/-	15/6	16/6	17/6	19/6
"Invincible"	..	..	..	35/-	37/-	40/-	40/-	42/-	45/-	48/-

SPRING MORTISE TO LOCK AND SPRING.

Sizes	..	..	3	3½	4	4½	5	5½	6	7	8
Four Lever ..	..	..	13/-	13/6	14/-	15/-	15/6	16/6	17/6	18/6	20/6
"Invincible"	..	..	35/-	35/-	35/-	37/-	40/-	40/-	42/-	45/-	50/-

RIM DEAD LOCKS TO LOCK ON ONE SIDE.

Sizes ..	..	4	4½	5	5½	6	7	8	9	10	12
Four Lever	..	10/-	10/6	10/6	11/-	11/6	12/6	16/-	20/-	25/-	30/-
"Invincible"	..	21/-	21/-	22/-	23/-	23/-	25/-	30/-	35/-	45/-	56/-

TWO BOLT RIM LOCKS.

Sizes ..	..	..	4	4½	5	5½	6	7	8
Four Lever	..	..	13/-	13/6	14/-	14/6	15/-	16/-	17/6
"Invincible"	..	..	32/-	33/-	34/-	36/-	36/-	40/-	45/-

MORTISE NIGHT LATCHES.

Sizes	..	..	2½	3	3½	4	4½	5
Four Lever ..	..	..	12/-	13/-	14/-	15/-	16/-	17/-
"Invincible"	..	..	25/-	26/-	27/-	28/-	29/-	30/-

RIM DEAD LOCKS TO LOCK ON BOTH SIDES.

Sizes ..	..	4	4½	5	5½	6	7	8	9	10	12
Four Lever	..	12/-	12/6	12/6	13/-	13/6	14/6	18/-	21/-	27/-	34/-
"Invincible"	..	24/-	24/-	25/-	25/-	26/-	28/-	33/-	38/-	49/-	61/-

DRAWBACK RIM NIGHT LATCHES.

Sizes.. ..	..	2½	3	3½	4	4½	5	6
Four Lever ..	..	9/6	10/-	10/6	11/-	11/6	12/-	12/6
'Invincible'	..	21/-	22/-	23/-	23/-	24/-	[illegible]	27/-

CAUTION.—Chatwoods do not sell any of their Safe Locks at any price.

DRAWBACK FLUSH & RIM NIGHT LATCHES, TRUNK & PORTMANTEAU LOCKS, BOOK EDGE, PORTFOLIO, WRITING CASH OR LETTER LOCKS, BRASS PAD, TILL OR DRAWER, CUPBOARD, PEDESTAL, SIDEBOARD, & BOX LOCKS.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CLARK HUNT & Co.,

159 & 160, SHOREDITCH, LONDON.

"ABBOTSFORD" STOVE DEPOT.

No. 121.

"ABBOTSFORD"

Fitted with Tiles.

FINE CAST,

£2 7 6

GROUND AND B. B.,

£3 5 0

SIZES.

36 in. to 40 in. wide.
38 in. high.
Fire, 17 in. wide.

No 120.

"ABBOTSFORD"

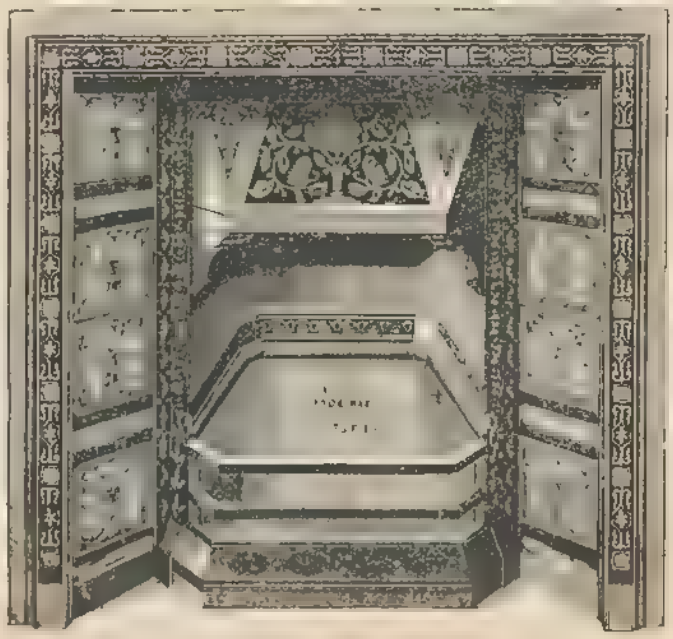
Fitted with Tiles.

GROUND AND B B.,

£3 15 0

SIZES.

38 in. to 4[illegible] in wide
38 in. high.
Fire 17 in. wide.



SHOW ROOMS FOR STOVES, MANTELS, TILES, FENDERS, BRASSES, RESTS, &c.

RANGES, KITCHENERS, BATHS, LAVATORIES, &c.

LOCKS AND FURNITURE, IRONMONGERY, BRASSFOUNDRY, CASTINGS, &c.

PLAIN AND ORNAMENTAL WROUGHT IRONWORK TO DRAWINGS. WROUGHT AND CAST RAILINGS, IRON DOORS, WINDOW-GUARDS, &c.

OVER 50 SETS OF STOVES & CHIMNEY PIECES ON SHOW. ALSO TILE HEARTHS & CURBS.

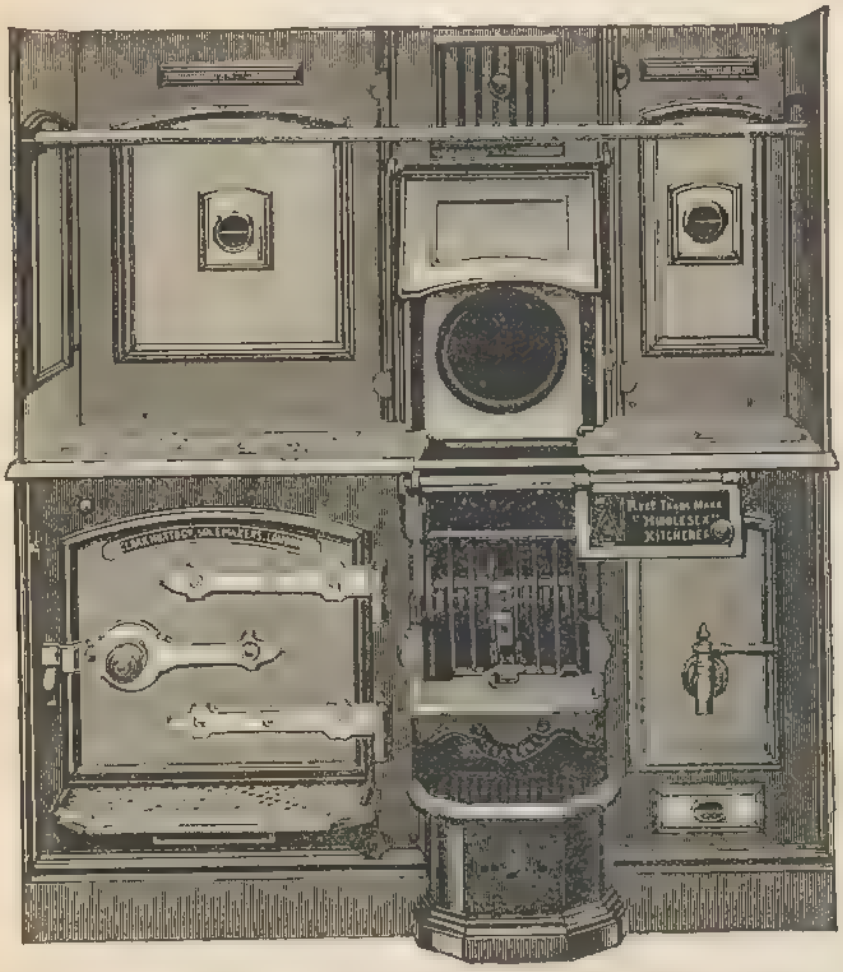
REGISTER STOVES of all descriptions and various qualities. Price List on application, enclosing two stamps.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CLARK HUNT & Co.,

159 & 160, SHOREDITCH, LONDON,

Sole Makers of "MIDDLESEX" KITCHENERS.



With Open and Close Arrangement and LIFTING FIRE.

With Oven and Side Boiler.

	Good Quality.	Extra Strong and Best Finish throughout.
Width 36 inches	£8 0 0	...
" 42 "	8 8 0	£11 13 6
" 48 "	9 4 0	12 9 6
" 54 "	9 17 0	13 8 0

With Two Ovens and H P. Bath Boiler.

	Good Quality.	Extra Strong and Best Finish throughout.
Width 48 inches	£12 12 0	£16 6 0
" 54 "	13 13 0	18 2 6
" 60 "	...	20 4 6
" 72 "	...	26 5 0

KITCHENERS OF VARIOUS STYLES AND ALL SIZES, FROM £2 TO £40.

PRICE LIST ON APPLICATION, ENCLOSING TWO STAMPS

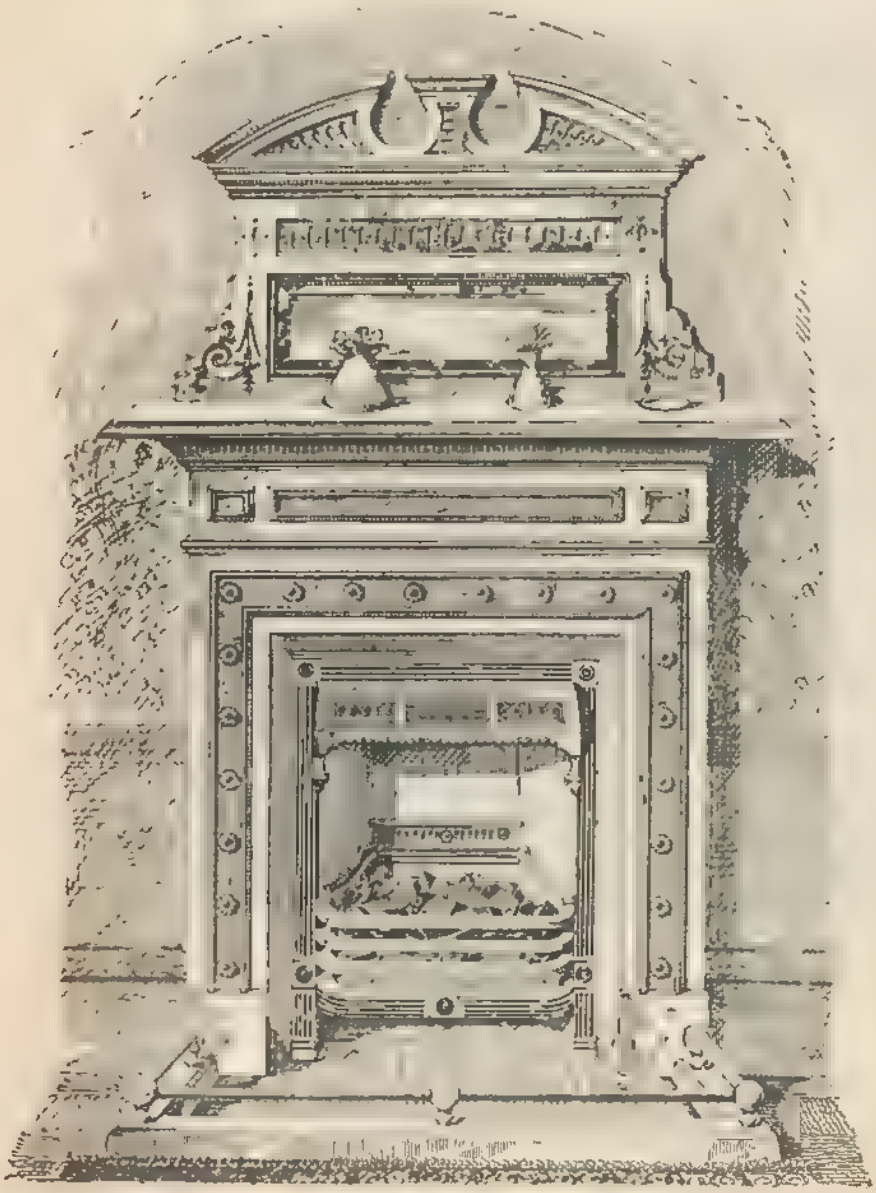
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

FALKIRK IRON COMPANY

67, UPPER THAMES STREET, LONDON, E.C.

22—24, SOUTH CASTLE ST., LIVERPOOL;
16, BOTHWELL ST., GLASGOW; 22, PICARDY PLACE, EDINBURGH.

WORKS; FALKIRK, N. B.



CLOSE FIRE KITCHENER
AND
OPEN FIRE RANGES,

Fitted with all the latest improvements—PORTABLE COOKING STOVE, INDEPENDENT RANGES AND GRILLS

Iron Mantel Grates and Overmantels,

NEW & EFFECTIVE DESIGNS.

Marble, Enamelled, Slate, Wood, Chimney Pieces.

Tiled & all Kinds of Register Grates and Interiors.

With Ordinary or Slow Combustion Fires.

ORNAMENTAL GATES, RAILINGS BALUSTERS, CRESTINGS, AND ARCHITECTURAL IRONWORK.

STABLE FITTINGS.
CAST IRON BATHS

Captain Galton's Fresh Warm Air Ventilating Grates.

LARGEST STOCK AND BEST SELECTION IN LONDON.

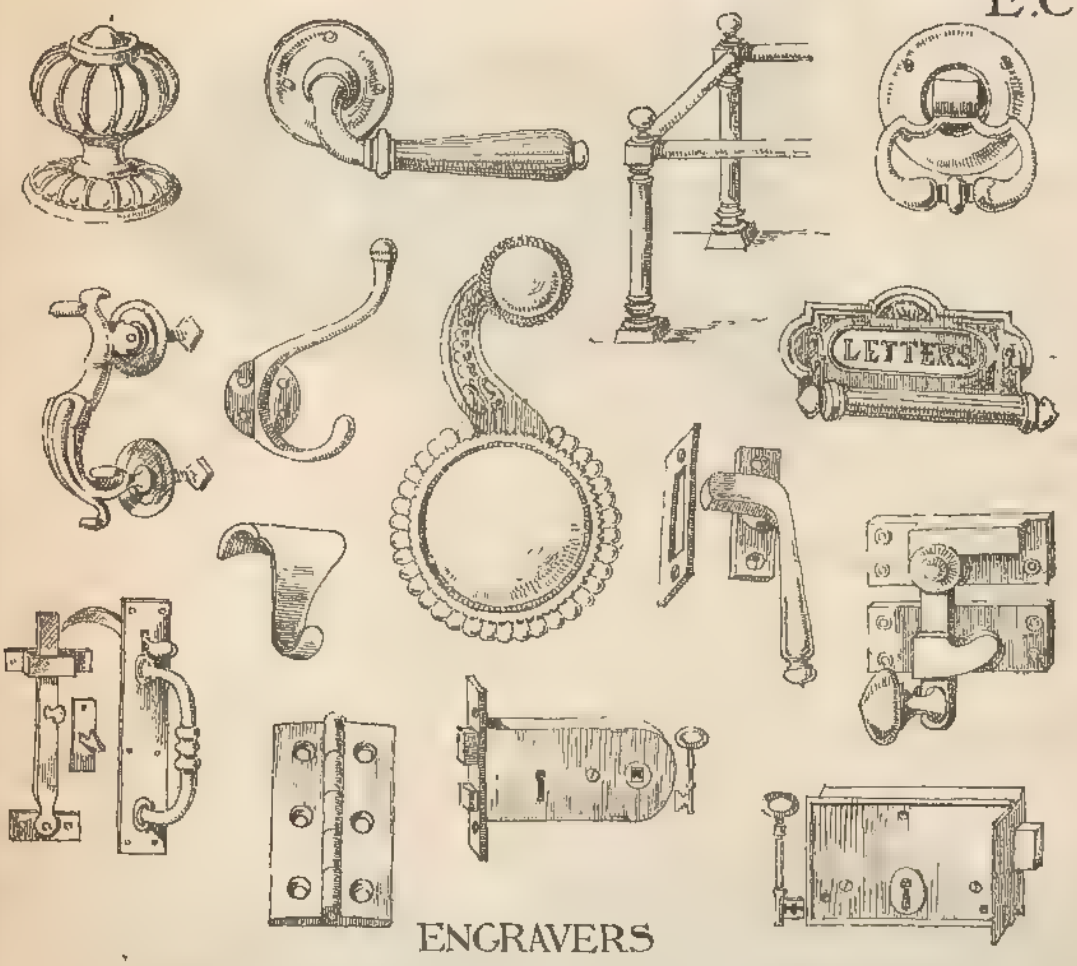
ENAMELLED STREET, NAME AND ADVERTISING PLATES OF EVERY DESCRIPTION.

CAST IRON HOLLOWWARE, ENAMELLED & TINNED. ENAMELLED STAMPED WARE.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CARTER & AYNSLEY

54, BISHOPSGATE ST. WITHOUT
LONDON. E.C.



ENGRAVERS

WROUGHT IRON ~ CAST IRON ~ BRASSWORK

EVERY DESCRIPTION OF

BUILDERS IRONMONGERY — GAS FITTINGS
STOVES & RANGES — DOOR FURNITURE
STABLE FITTINGS — MEDIEVAL BRASSWORK

SPECIAL QUOTATIONS GIVEN.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

JAMES GIBBONS,

ST. JOHN'S WORKS, WOLVERHAMPTON.

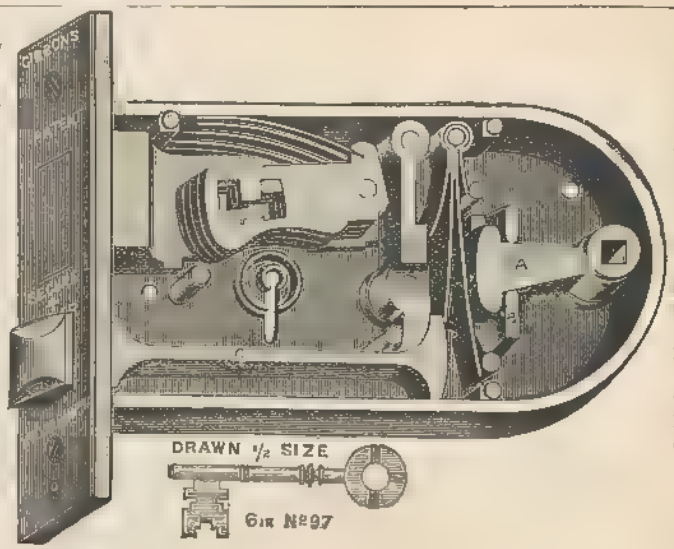
Patentee, General Lock Manufacturer, & Builders' Brassfounder.

Telegraphic Address—"GIBBONS, WOLVERHAMPTON." ESTABLISHED 1807.

GIBBONS' PATENT "ANTI-FRICTION" MORTICE LOCK.

FRICTION—REDUCED TO A MINIMUM.

Follower as far back in a 6-in. lock as in an ordinary 7-inch.



The rounded horns of the follower A working against the loose tail B, reduces the friction to a minimum; the light spring upon the latch bolt C allows the door to close silently and the strong one upon the crank D prevents the knobs from binding.

The follower, being at the extreme end of the lock, allows the greatest possible space between the knob and key-hole, which is a most important advantage. In fact, a 6 inch lock takes the place of an ordinary 7 inch.

The rounded ends save time in fixing.

No. 94—6 by ⅝ inch,	2 Brass Bolt, Steel Follower	4/6 each.
" 95—6 by ⅝ inch,	" " 2 Lever	5/6 "
" 96—6 by ⅝ inch,	" " 4 Lever, and Brass Bushed	7/6 "
" 97—6 by ⅝ inch,	Best Quality, Gun Metal Bushed, 4 Lever, and Ornamental Key, as shown	9/6 "
" 97—7 by ⅝ inch,	" " " " "	11/ "
" 98—7 by ¾ inch,	" " " " " extra strong	15/- "
" 99—7 by ¾ inch,	" " Gun Metal Bolts and Bushes	20/- "

ALL LATCH BOLTS REVERSIBLE.

If made to Differ, with MASTER KEY to pass, 2/- each lock extra.
If made to Differ, with MASTER KEY to pass and lock twice, 5/- each lock extra.

GIBBONS' REGISTERED FLUSH BOLT,

WITH SUNK LEVER ACTION.

No. 174.

THIS Bolt acts by pulling the Lever A forward, and folding it into the opposite recess. It does not hurt the finger in using it, and when fixed in the rebate of Folding doors, it cannot be opened until the first half of door is open.

PRICES.

	6	8	12	15	18	24	30	36 inch long.
⅝ inch wide ..	2/5	2/7	3/	3/7	4/1	5/2	7/6	10/ each.
¾ " ..	2/10	3/-	3/6	4/1	4/8	5/10	8/	10/6 "
1 " ..	3/3	3/6	4/-	4/8	5/3	6/6	9/	11/6
1¼ "			5/6	6/5	7/3	9/-	10/6	13/6 "

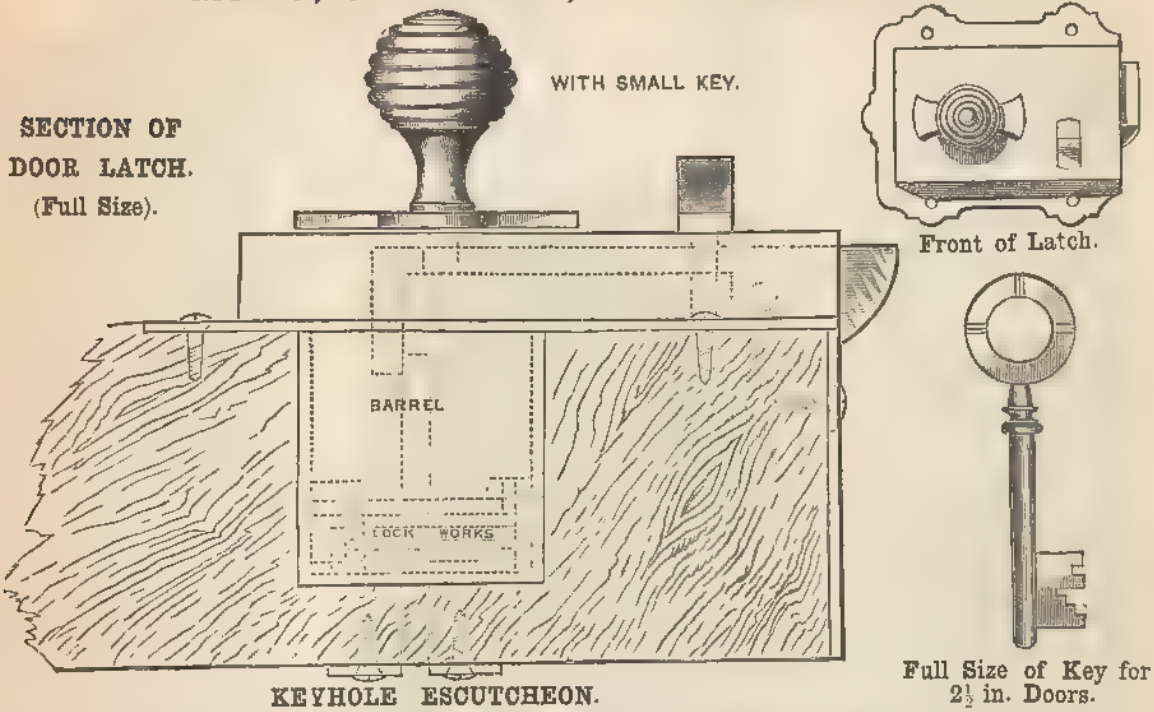
LONDON OFFICE & SHOW ROOMS: 22, SURREY STREET, STRAND.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

TELEGRAPHIC ADDRESS—"GIBBONS, WOLVERHAMPTON."

JAMES GIBBONS, ST. JOHN'S WORKS, WOLVERHAMPTON.

GIBBONS' PATENT NIGHT LATCH.

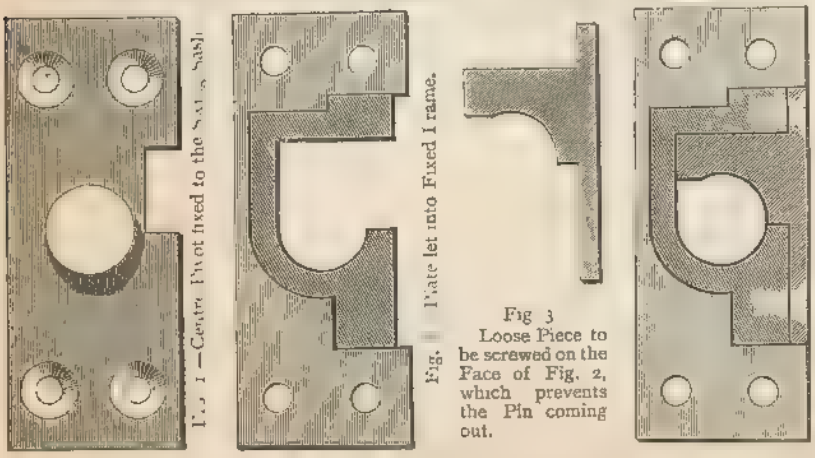


The improvement consists in the Lock works, levers &c. being carried in a barrel which is let into the door, thus enabling the key to be made much shorter, which is much more convenient for the pocket than the present long latch-key in general use

PRICES.

No. 109. All Brass, Secure, 6 Lever, & 2 Plated Keys, 12s. 6d. ea. | No. 110. All Brass, Secure, 4 Lever, & 2 Plated Keys, 10s. ea.
No. 111. Japanned Iron, 4 Lever, and 4 Keys, 7s. 6d. each.

GIBBONS' PIVOT CENTRES, No. 820. PATENT APPLIED FOR.



This improvement consists of the Loose Piece (Fig. 3) being screwed on to the face of the Plate (Fig. 2) which prevents the Fanlight Centre (Fig. 1) from being jerked out of the Plate if shut too quickly. It also makes a better fit round the centre pin, and adds to the close fitting of the Fanlight.

PRICES.

Best Malleable Iron.
No. 1 size, 2½" by 1" 9d;
No. 2 3" by 1¼" 1s 3d,
No. 3 3½" by 1½" 1s 6d per pair or set.
Brass. (Steel Pin).
No. 1 size 2½" by 1" 1s 6d,
No. 2 2¾" by 1¼" 2s.,
No. 3, 3½" by 1½" 2s. 6d., per pair or set.
Gun Metal (Steel Pin).
No. 1 size 2½" by 1", 1s 8d
No. 2 2¾" by 1¼" 2s 3d,
No. 3, 3½" by 1½", 3s., per pair or set

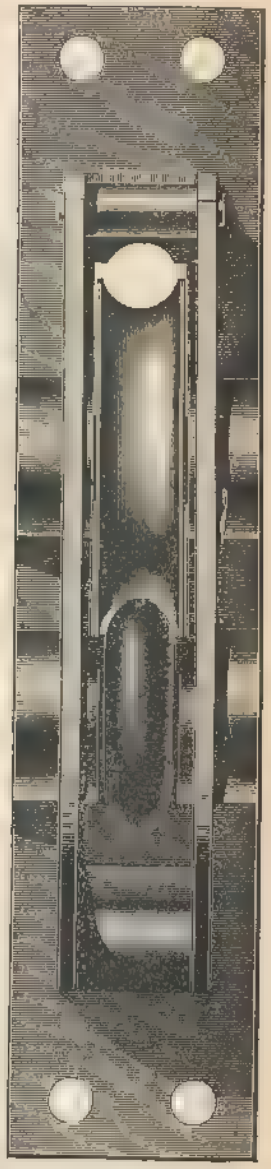
LONDON OFFICE & SHOW ROOMS: 22, SURREY STREET, STRAND.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

TELEGRAPHIC ADDRESS—"GIBBONS, WOLVERHAMPTON"

JAMES GIBBONS, ST. JOHN'S WORKS, WOLVERHAMPTON.

GIBBONS' PATENT "ROLLER" AXLE PULLEY.



2,643 of these Pulleys are now in use at the **NEW ROYAL INFIRMARY, LIVERPOOL.**
A. WATERHOUSE, R.A., *Architect*

This Patent consists in the introduction of a **Roller beneath the Ordinary Pulley Wheel**, which causes the Pulley to run **smoothly** and **noiselessly**, and greatly **reduces the friction**; the roller also keeps the wheel well in the centre, thus **preventing all side wear and tear. It is impossible for the Pulley to become jambed**, which is the chief cause of sash cords and chains breaking. It has two axles and two pairs of bushes, **and will last twice the time of an ordinary Pulley.** The Pulley Axle is fitted loosely, so as to allow the weight to be carried by the roller.

PRICE, with Brass Face, and Solid Gun Metal Pulley, 42/- per Dozen.

LONDON OFFICE & SHOW ROOMS: 22, SURREY STREET, STRAND.

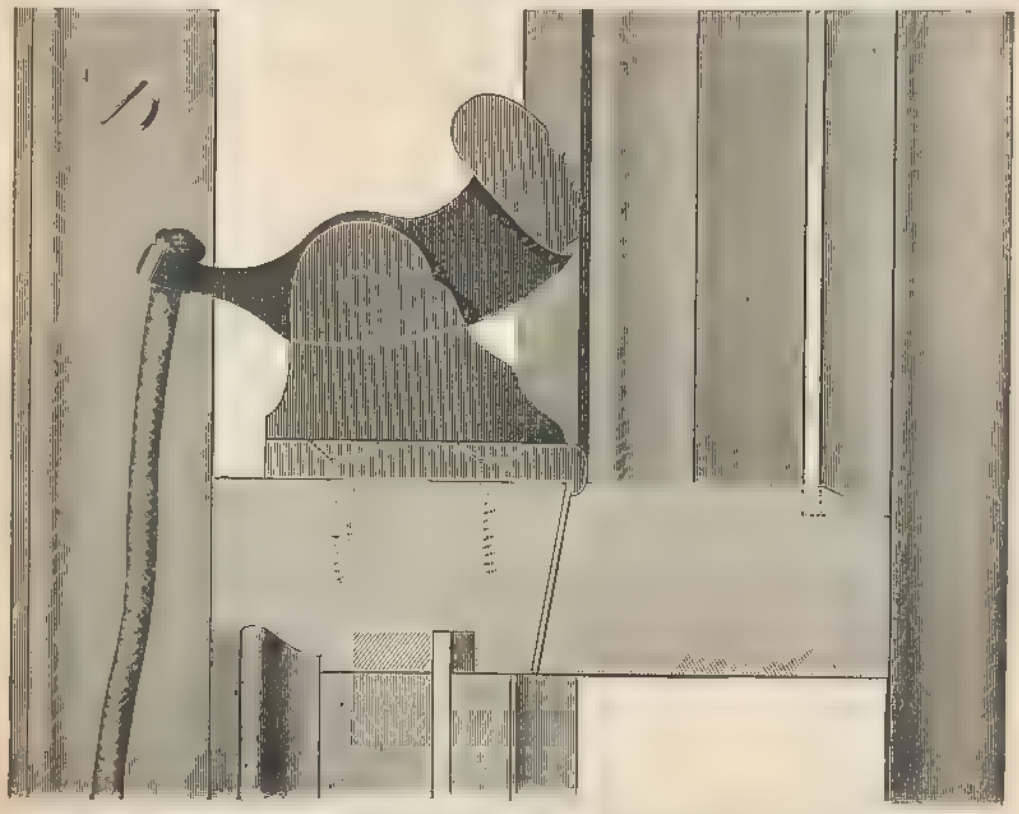
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

TELEGRAPHIC ADDRESS—"GIBBONS, WOLVERHAMPTON."

JAMES GIBBONS, ST. JOHN'S WORKS, WOLVERHAMPTON.

THE "VICTORIA" PATENT SASH FASTENER.

The Victoria Patent Sash Fastener is one which **can be relied upon to give security** against the possibility of **either Sash being opened from the outside.** As it is automatic in its action, **it always keeps the Sashes fastened.** The special advantage claimed for this Fastener is, that **ONE or BOTH of the Sashes may be left open for Ventilation with perfect security.** The bottom plate is made with a fillet on the underside, which **effectually prevents a knife or other instrument being forced up between the sashes** to tamper with the fastener, and if an attempt were made **it would only cause the fastener to become** if possible, **MORE SECURE by allowing the tumbler to fall.**



The Sashes **can be closed from the outside WITHOUT INTERFERING with the Fastener.**

The Fastener is fixed on the top of the lower Sash immediately over the stile, so that it presses against the stile of the top Sash. When either Sash is required to be opened, the lever is released by a cord attached to the fastener.

NOTE.—*It is necessary that the Sashes should be pressed against the outside lining of Sash Frame and the inside bead, while the Fastener is being fixed.* (*See Engraving.*)

PRICES.

No. 1,—JAPANNED IRON, 9s. per Doz. | No. 2.—BRASS ... 24s. per Doz.

No. 3.—BRASS (Very Strong, for Larger Sashes), 36s. per Doz.

LONDON OFFICE & SHOW ROOMS: 22, SURREY STREET, STRAND.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

W. & R. LEGGOTT,

Makers of Specialities,

Telegraphic Address: "SILENS," BRADFORD

235, High Holborn, LONDON; 109, Hope Street, GLASGOW; and Silens Works, BRADFORD.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

BY HER MAJESTY'S ROYAL LETTERS PATENT.

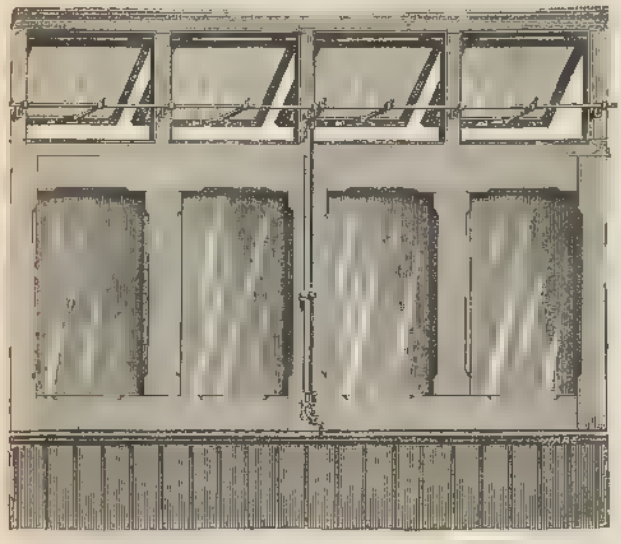
INTERNATIONAL HEALTH EXHIBITION, LONDON, 1884.

PRIZE MEDAL

AWARDED TO

Leggott's Adjustment for Opening & Closing Fanlights, & Lifting Skylights.

"KRINSERO."



LEGGOTT'S
Patent French Casement Stay.

This STAY is made to suit Casements opening inwards or outwards, and is perfectly secure at any angle. A great advantage over all other Stays is that whether the window be opened or closed it never projects into the room more than two inches.

Price in Brass, 14/6. In Iron, 8/3.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

W. & R. LEGGOTT,

Telegraphic Address: "SILENS," BRADFORD.

Makers of Specialities,

235, HIGH HOLBORN, LONDON; 109, HOPE STREET, GLASGOW; and SILENS WORKS, BRADFORD.

Leggott's Adjustment for Opening & Closing Fanlights, & Lifting Skylights.

SILENS FOR FANLIGHTS.

No. 2. MALLEABLE IRON 4/3
No. 2 BRASS 9/-

No. 2 opens 10 in., and is suitable for Windows about 2 ft. square, or similar area.

No. 6. MALLEABLE IRON 7/-
No. 6 BRASS 12/6

No. 6 opens 15 in., and is suitable for Windows about 3 ft. square, or similar area.

No. 8 MALLEABLE IRON 11/6
No. 8 BRASS 23/6

No. 8 opens 18 in., and is suitable for large heavy Windows.

These are made to fix in almost any imaginable position, and are always locked when open or closed.

OLD SILENS FOR SKYLIGHTS.

These are suitable when the Cord is to be carried down one side. See cost of pulley extra

No 3 MALLEABLE IRON .. 5/-
No 3 BRASS 10 6

No. 3 opens 10 in., and is suitable for Skylights 2 ft. long and 1 ft. 3 in. wide.

No 5 MALLEABLE IRON .. 7 9
No. 5. BRASS 13 6

No. 5 opens 10 in., and is suitable for Skylights 3 ft. long and 2 ft. wide.

No 7. MALLEABLE IRON .. 12/9
No 7 BRASS 25/-

No. 7 opens 18 in., and is suitable for Skylights 6 ft. long and 4 ft. wide.

NEW SILENS FOR SKYLIGHTS.

These are superior to the old Silens, do not require a Pulley, and the Cord hangs straight down.

No. 3. MALLEABLE IRON .. 5/9
No. 3. BRASS 13/-

No. 3 opens 10 in., and is suitable for Skylights 2 ft. long and 1 ft. 3 in. wide.

No. 5 MALLEABLE IRON .. 8/6
No. 5. BRASS 17/-

No. 5 opens 15 in., and is suitable for Skylights 3 ft. long and 2 ft. wide.

No 7. MALLEABLE IRON .. 13/6
No. 7. BRASS 31/6

No. 7 opens 18 in., and is suitable for Skylights 6 ft. long and 4 ft. wide.

For Roof Lights above this size we make a special powerful opener.

THESE SKYLIGHT OPENERS ARE UNSURPASSED.

We can highly recommend the Silens for Fanlights and Skylights, and can guarantee the easy and noiseless opening and closing of any window, whatever its size, provided a suitable sized Adjustment is used. When ordering, give height and width of window, distance from the Adjustment to four feet from the floor. Say Fig. 1 shown on Illustration. When the Adjustment is required for Iron Casements, we suggest the Casements be tapped to receive set screws.

FANLIGHT OPENER WITH ROD

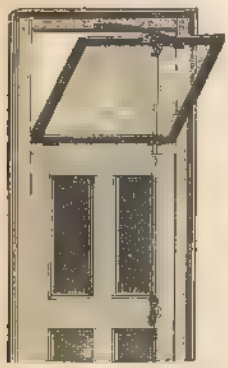
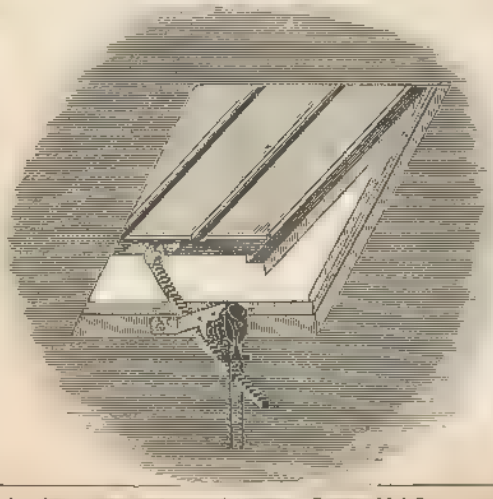


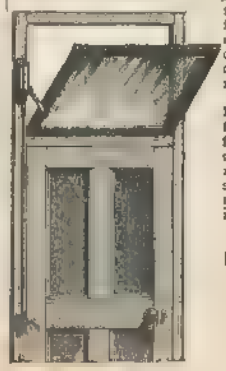
Fig. E

SKYLIGHT OPENER WHEN FIXED



THE "WILMOS."

The "WILMOS" is a NEW PATENT FANLIGHT OPENER, worked with a rod or endless cord, and will be found the most perfect article yet made for efficiency in working, and smartness in appearance. When fixed with Rod is very neat in appearance, it only projects 1¾ inch, except at the handle, which is 2 inches.



It is made to open Fanlights inward, outward, top or bottom, is easily fixed, *no cutting away of wood, and no letting-in required*, but simply to screw on. When ordering please say how light is hung.

Bronzed Iron, 16/-
Part Brass and Part Iron, 25/-

These efficient and useful novelties bespeak the preference of Architects, Builders and Owners, and others on the score of their practical utility, and their importance to health and comfort. They are by far the BEST inventions for their purpose, and meet every requirement. They are equally suited for use in Private or Commercial Establishments, Banks, Hotels, Schools, Hospitals, &c., and made to open Lights in any position.

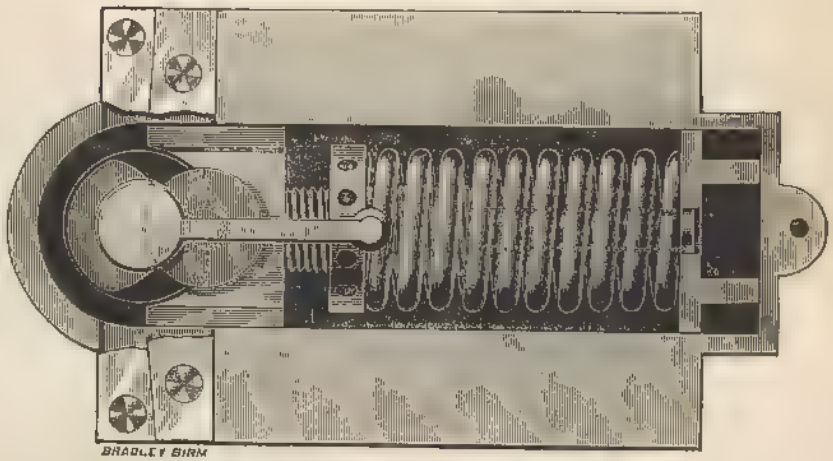
We make a Special Cord for our Openers, very durable, which must not be cut or divided.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HILL AND HODGES'

SUPERIOR PATENT FLOOR SPRING HINGES.

The Hinge of the Future.



FOR DOUBLE ACTION SWING DOORS OF **BANKS, HOTELS,** AND OTHER *PUBLIC BUILDINGS.*

ARCHITECTS & CONTRACTORS are particularly asked to give these excellent Hinges a trial.

As a guarantee, the Manufacturer is prepared to fix a **PAIR GRATIS** *on any Public Building or Charitable Institution in LONDON, and test their merits with the hinges of* **any other maker in the Kingdom.**

Amongst many of the places where these **HINGES** have been fixed, and given entire satisfaction, are the **Municipal Buildings, West Hartlepool; Alliance Insurance Company, Birmingham; Birmingham "Exchange and Gazette" Office; Hotel Metropole; Monte Carlo; Harborne Hall; Maple & Co., London; Frisby, Dyke & Co., Liverpool; Wesleyan Chapel, Bilston; Board Schools, Handsworth; Yorkshire Penny Bank, Sheffield; Menston Asylum, near Leeds; Albion Hotel and Waterloo Bar, Birmingham.**

PRICES.

	1½	1¾	1⅞	2	2⅛	2¼	2⅜	2½	2⅝	2¾	2⅞	3	inch.
No. 1160—	25/6	27/0	27/0	27/0	28/6	30/0	40/0	42/0	44/0	46/0	49/0	52/0	each
No. 1161—	32/6	34/0	34/0	34/0	35/6	37/0	47/0	49/0	51/0	53/0	56/0	59/0	each

No. 1162—2⅜ and 2½ inch, 60/0 2⅝ and 2¾ inch, 65/0. 2⅞ and 3 inch, 70/0 each.

Above sizes are for Doors when finished.

No. 1161 is the very best quality that can be made with adjusting arrangement in Shoe. **No. 1162** is same quality, only larger and much stronger, suitable for very heavy and wide doors. **No. 1160** is an excellent Hinge, having all the advantages of 1161, except adjusting arrangement.

SOLE MANUFACTURER—

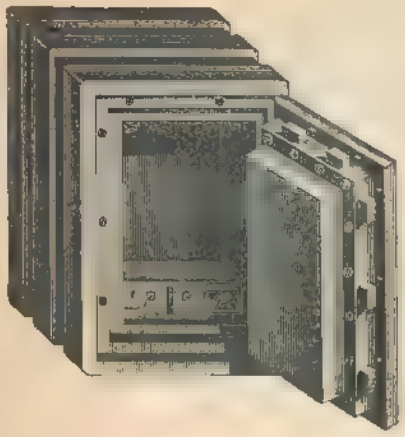
ROWLAND HODGES, FREDERICK STREET, BIRMINGHAM.

Can be had through all Ironmongers at Manufacturers' Prices.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THOMAS PERRY & SON, Ld.

HIGHFIELDS WORKS,



BILSTON, STAFFORDSHIRE,

ENGLAND.

MAKERS OF

FIRE AND THIEF RESISTING

SAFES, DOORS,

AND

STRONG-ROOMS

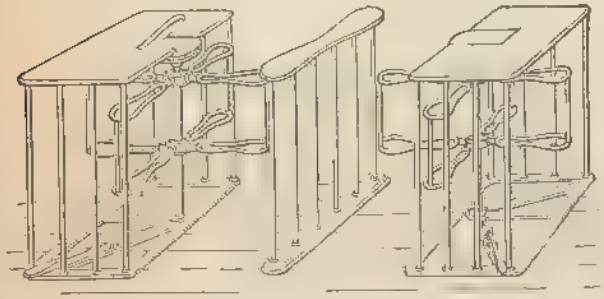
LONDON OFFICE:
11, DYERS BUILDINGS, HOLBORN, E.C.

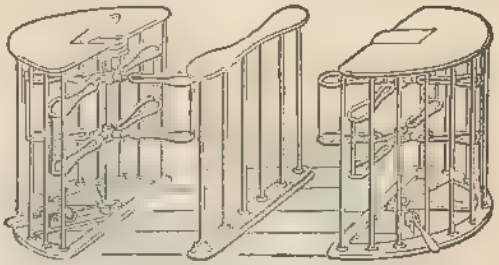
LIVERPOOL OFFICE:
8, INDIA BUILDINGS, FENWICK STREET.

LISTS ON APPLICATION. ESTABLISHED 1806.

SLARK'S PATENT SELF-REGISTERING IRON TURNSTILES,

As supplied to all the principal Institutes, Exhibitions, Picture Galleries, Cricket and Football Clubs throughout Great Britain and the Colonies,





The House of Commons, the National Gallery the Crystal Palace, Madame Tussaud's, the South Kensington Museum, the Fisheries Healtheries, Anglo-Danish and other Exhibitions (South Kensington), the Brighton Aquarium, the Albert Palace, Hurlingham Club the Kennel Club the Carpenters Company, the Tooth Gallery Doulton's Potteries Royal Institute of Painters in Water Colours, Duke of York's School, Ecclesiastical Art Exhibition,

ALSO THE FOLLOWING GREAT INTERNATIONAL EXHIBITIONS:

Paris, New Orleans, Brussels, Antwerp, Havre, Amsterdam, Hamburg, Melbourne, Sydney.
L.A.C., Queen's Club Kensington and other Athletic Grounds. Agricultural and Horse Shows, &c.

NEW PROSPECTUS (illustrated) FREE ESTABLISHED 1851 EXHIBITION. *ESTIMATES AND DRAWINGS FREE*

TURNSTILES ON HIRE, £1 PER WEEK.

WALHAM GREEN, LONDON, S.W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

MEAKIN & Co.,

84, BAKER ST., LONDON, W.

Self-Acting Sash Fastener and Opener.

Solid Frame "Oilable" Sash Pullies.

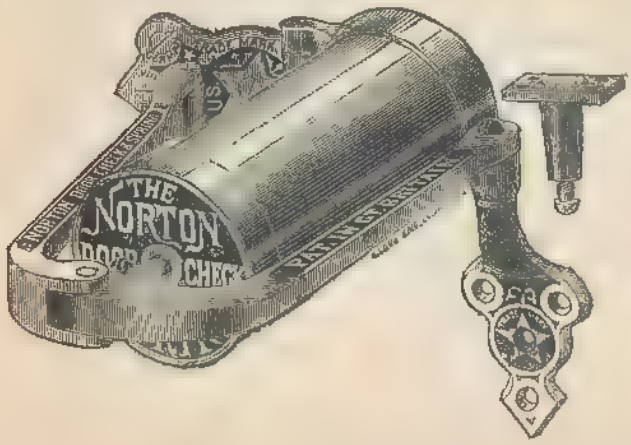
"Wedge" Line Holders.

LITHOGRAPHS, &c., FORWARDED ON REQUEST.

THE NORTON

DOOR CHECK AND SPRING.

THE parts of the device are so arranged together, that the greater the force exerted to close the door the greater resistance will be offered: consequently no slam or jar can occur. Many devices have been tried for this purpose, and all but the NORTON DOOR CHECK AND SPRING have been found wanting. It is very desirable for the doors of



Hotels, Churches, Theatres, Schoolhouses, Hospitals, Public Buildings of all kinds, Stores Counting-Rooms, Private Dwellings, Railroads, Steamboats, &c.

and, in fact, for all doors large or small, which are liable to slam. It is of special value upon Storm Doors, or doors exposed to high winds, for Screen Doors it has no equal, and operates equally well upon outside or inside doors. It is very simple, and not liable to get out of order, and may be attached to either side of a door.

Following are the Prices established by each one of our Agents—

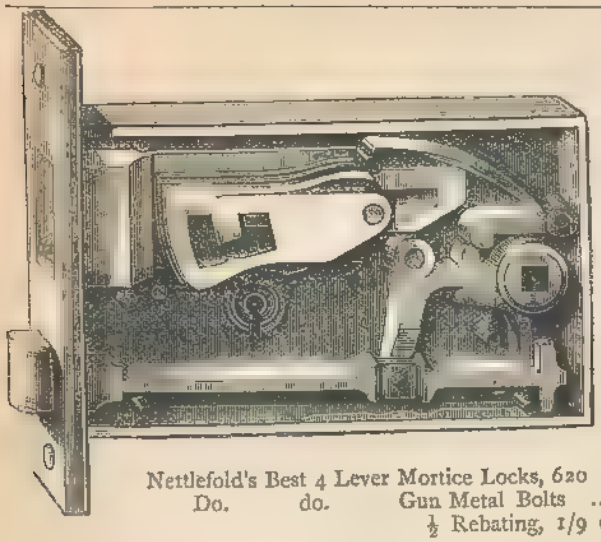
No. 0.	Suitable for Doors not exceeding 4 ft. in width by 3 in in thickness	33/-
No. 1.	Suitable for Doors not exceeding 3½ ft in width by 3 in. in thickness	26/-
No. 2.	Suitable for Doors not exceeding 2 ft 8 in in width by 2 in in thickness	22/-
No. 3	Suitable for Doors not exceeding 2 ft 6 in in width by 1½ in. in thickness	18/-
No. 4	For Screen and other Light Doors	18/-

WHOLESALE AGENTS FOR EUROPE

RICHARDS, TERRY & CO., LIMITED, 46, HOLBORN VIADUCT, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NETTLEFOLD & SONS, 54, HIGH HOLBORN, LONDON, W.C.



MORTICE LOCKS.

	6	7 in.
Nettlefold's Patent 2 Lever Mortice, 1617	5/8	7/3 each.
Nettlefold's Patent 4 Lever Mortice, 610	7/6	9/6 each

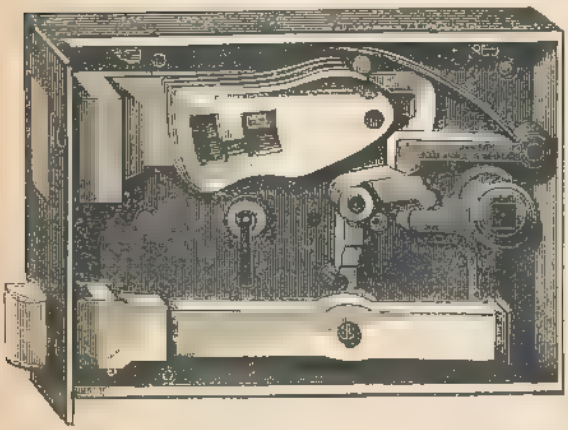
Half Rebating, 1/3 each extra.

	6	7 in.
Nettlefold's Best 4 Lever Mortice Locks, 620	10/6	12/6 each.
Do. do. Gun Metal Bolts	12/6	15/- "

½ Rebating, 1/9 each extra.

	4	5	6-in.
Mortice Dead Locks, 2 Lever	5/-	5/6	6/-
Do. do. 4 do.	6/6	7/-	7/6

All Priced without Furniture.



RIM LOCKS.

	6	7 in.
Nettlefold's Patent 2 Lever Rim Locks, 734	6/3	7/-
Tumbler Lock as above, No. 730	4/6	5/-
Best 4 Lever Rim Lock	8/6	10/6

All Priced without Furniture.

NETTLEFOLD'S PATENT LEVER RIM DEAD LOCKS.

	4	6	7 in.
4 Lever	7/6	10/	12/-
5 Lever and Guardian	—	17/6	—
5 " " 2 sided	—	21/-	—

NETTLEFOLD'S PATENT LEVER NIGHT LATCHES.

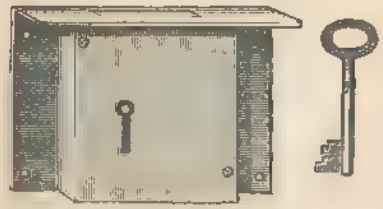
4 in. 2 Lever Rim, 2 Keys	6/-
4 " 4 " " 2 "	7/6
4 " 4 " Mortice 2 "	10/-
4½ " 5 " and Guardian Rim...	23/6

A GOOD ASSORTMENT IN STOCK.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NETTLEFOLD & SONS,

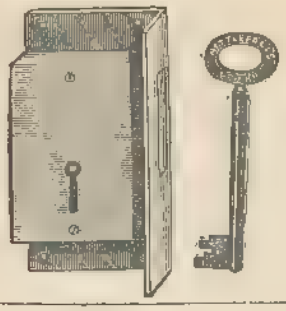
LEVER TILL LOCKS.



	2¼	2½	2¾	3 in.	
Nettlefold's Patent 1 Lever	16/-	16/-	17/-		doz.
" " 2 "	19/-	19 -	20/-	22 -	
" " 4 "	25/-	25/-	27/-	29/-	
" " 5 " and Guardian	6/8	6/8	6/8	6/8	each.

	2¼	2½	2¾ in.
Machine Made 2 Lever	13/-	14/-	15/-
" " 4 "	17/-	18/-	19/-

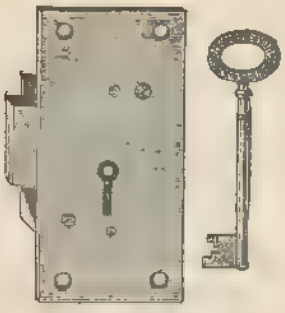
LEVER CUT CUPBOARD LOCKS.



	2½	3	3½ in.	
Nettlefold's Patent 1 Lever	16/-	17/6	21/-	doz.
" " 2 "	21 -	22/-	26/-	
" " 4 "	25/-	27/-	32/-	
" " 5 " and Guardian ...		6/8		each

	2½	3	3½ in.
Machine Made, 2 Lever	14,-	16/-	17/6 doz.
" " 4 "	17/6	20/-	21/6

LEVER DOUBLE HAND CUPBOARD LOCKS.



	2½	3	3½	4 in.	
Nettlefold's Patent 1 Lever	20/-	22/6	26/-		doz.
" " 2 "	22/6	25/-	28/6	44/-	"
" " 4 "	27/-	31/-	35/-	48/-	"

	2½	3	3½ in.	
Machine Made 2 Lever	17/-	18/6	20/6	"
" " 4 "	20/-	22/-	24/-	"

PEDESTAL, BOX, & LINK PLATE, same price as Double Hand Cupboard.

NETTLEFOLD'S PATENT 4 LEVER PAD LOCKS (2 Key'd).

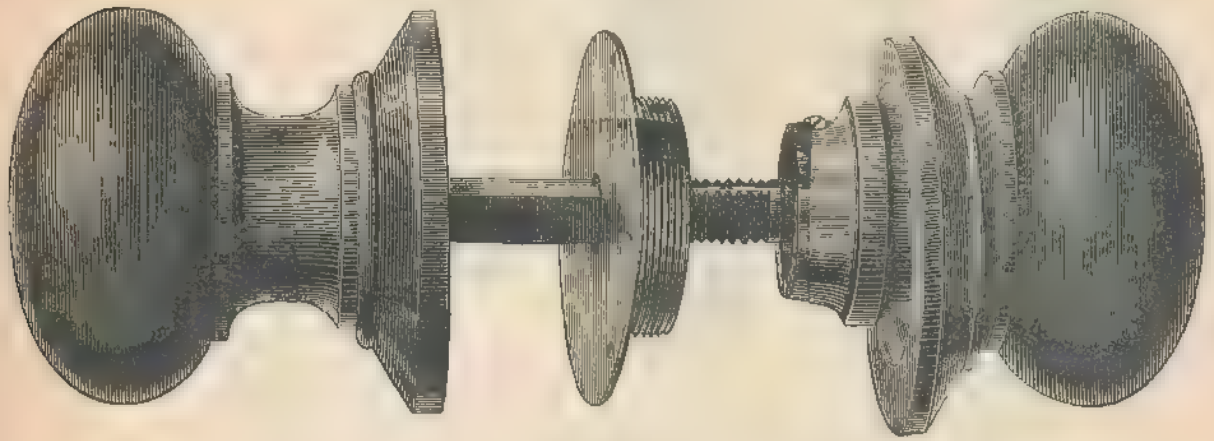
1¼	1½	1¾	2	2¼	2½	3 in.
3/4	4/-	4/6	4/9	5/6	6/-	8/6 each.

A GOOD ASSORTMENT OF ABOVE ALWAYS IN STOCK. SPECIAL LOCKS MADE TO PATTERNS OR INSTRUCTIONS

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

54, HIGH HOLBORN, LONDON, W.C.

NETTLEFOLD'S IMPROVED LOCK FURNITURE



PRICES.

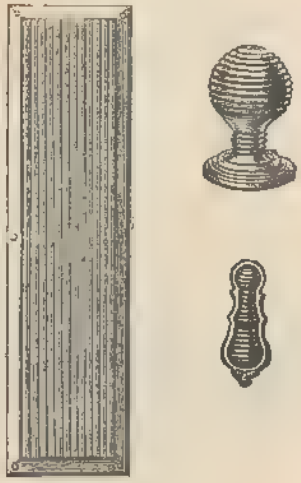
DESCRIPTION.	1⅝ in.	1⅞ in.	2 in.	2⅛ in.	2¼ in.	2⅜ in.	2½ in.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Plain Brass Rim Furniture ... Per set.	1 11	2 1	2 3	2 6	2 9	3 0	
Plain Brass Mortice „ 2 Bolt set „	...	...	2 9	3 0	3 6	4 0	.
Plain Oak „ „ „ „	...	...	...	...	3 9	...	4 6
Plain Ebony „ „ „ „	...	...	...	...	3 9	...	4 6
Plain White China „ „ „	...	...	...	...	2 6	..	..
Plain Black „ „ „ „	...	...	...	...	2 9	..	...
Plain Buff „ „ „ „	...	...	...	...	2 9	...	...
Plain White with 2 Gold Lines „ „	...	...	...	...	3 3	...	...
Plain Black „ „ „ „	...	...	...	...	3 6	...	...
Plain Buff „ „ „ „	...	...	...	...	3 6	...	...

SPECIAL QUOTATION FOR QUANTITIES.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NETTLEFOLD & SONS,

No. 700
PITT'S SPINDLE.

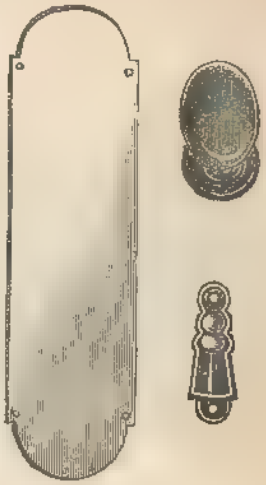


Fur. 2 Bolt set, 1¾ in. 6/- per set.
" " " 2 " 6/9 "
Finger Plates... ... 1/- each.
Levers ... ... 9/3 per pair.
Shutter Knobs ... 1/6 each.

No. 701.
PITT'S SPINDLE.

Furniture, 2 Bolt set 7/3 per set.
Finger Plates ... 2/- each.
Levers ... ... 10/- per pair.
Shutter Knobs ... 1/2 each.

No. 702
NETTLEFOLD'S
IMPROVED SPINDLE.



SOLID OVAL KNOBS.
Furniture, 2 Bolt set... 9/- per set.
Finger Plates... ... 2/6 each.

No. 703.
PITT'S SPINDLE.

Furniture, 2 Bolt set, 5/3 per set.
Finger Plates ... 4/3 each.
Levers ... ... 10/6 per pair.
Shutter Knobs ... 1/6 each.

No. 704.
PITT'S SPINDLE.

Furniture, 2 Bolt set 11/9 per set.
Finger Plates ... 5/- each.
Levers ... ... 14/6 per pair.
Shutter Knobs ... 2/6 each.

No. 705.
PITT'S SPINDLE.

Furniture, 2 Bolt set 10/- per set.
Finger Plates ... 6/6 each.
Levers ... ... 11/9 per pair.
Shutter Knobs ... 1/10 each.

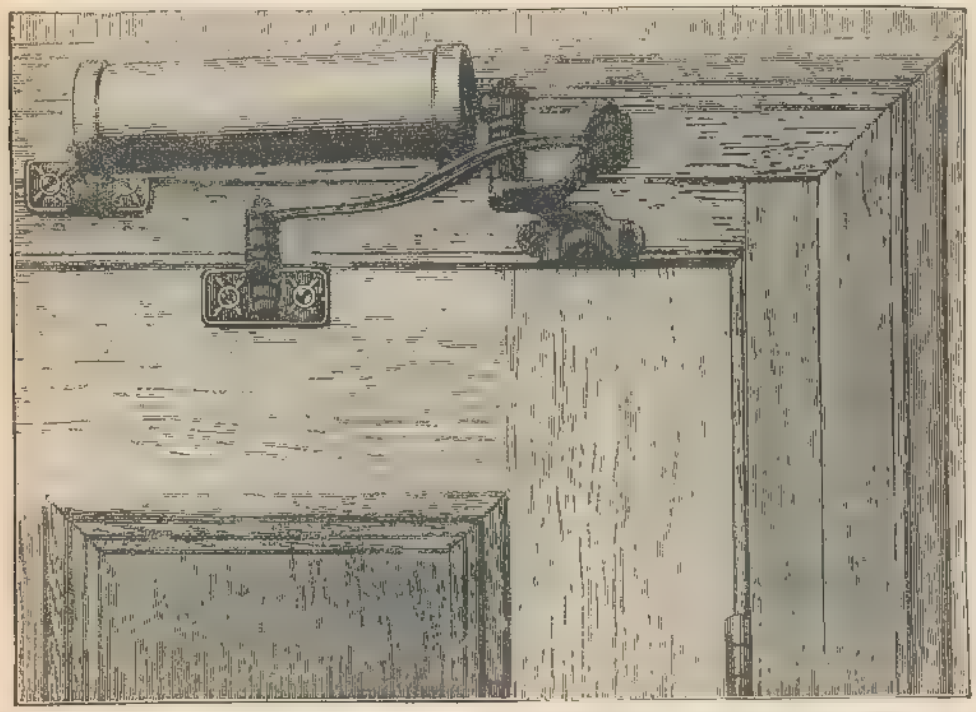
ALSO NUMEROUS OTHER PATTERNS FOR SELECTION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

54, HIGH HOLBORN, LONDON, W.C.

THE SHAW DOOR-CHECK & SPRING.

The same Spring can be applied either to the Hinge or Jamb Side of right or left-hand door.



SLAMMING OF DOORS & THE BREAKING OF GLASS RENDERED ABSOLUTELY IMPOSSIBLE.

INVALUABLE FOR PUBLIC BUILDINGS, CHURCHES, HOSPITALS, SCHOOLS, HOTELS, THEATRES, AND PRIVATE DWELLINGS.

The small screw in end of cylinder alone regulates the action of the door. If you want the door to close quicker turn the screw to the left, if slower turn to right.

All bearings must be oiled occasionally. The door must work freely and not bind anywhere, and when the spring is properly attached it cannot fail to do the work for which it is intended in a proper manner.

PRINTED DIRECTIONS FOR ATTACHING PACKED WITH EACH SPRING.

PRICE LIST.

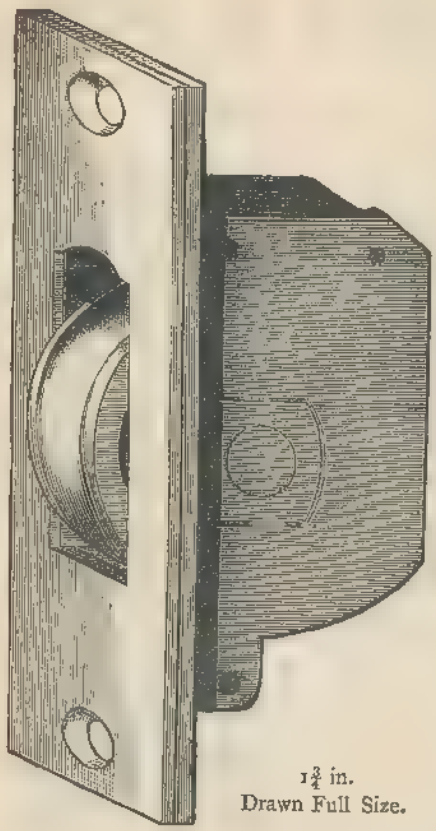
		EACH.
No. 2.	For doors not exceeding 2 feet 6 inches wide, by 1½ inches thick ...	22/-
No. 2½.	For doors not exceeding 2 feet 8 inches wide, by 2 inches thick	26/-
No. 3.	For doors not exceeding 3½ feet wide, by 3 inches thick	30/-
No. 3½.	For doors not exceeding 4 feet wide, by 3 inches thick	35/-

The above are for doors of regular sizes. For every two feet additional in height the same width as above, the next size larger is required to handle the door properly.

TERMS ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NETTLEFOLD & SONS,



1¾ in.
Drawn Full Size.

No. 301. BRASS FACE & WHEEL.

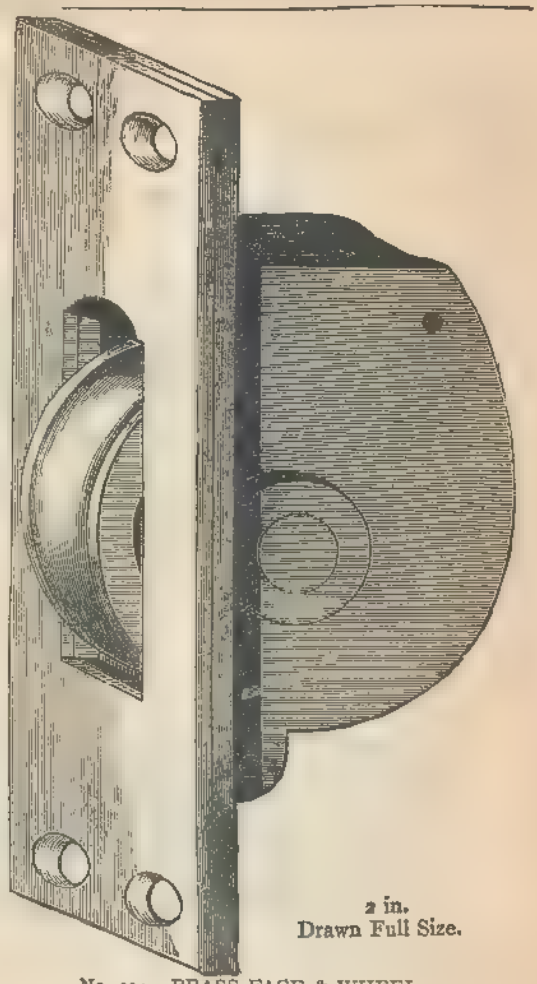
1½	1¾	2	2¼	2½ in.
4/10	5/10	6/10	8/9	11/- per doz.

Lighter, No. 340

1½	1¾	2	2½ in.
4/-	4/8	5/10	7/6

If Brass Bushed, No 341.

4/9	5/8	7/-	8/10



2 in.
Drawn Full Size.

No. 304 BRASS FACE & WHEEL.

1½	1¾	2	2¼	2½ in.
5/3	6/3	7/3	9/8	12/- per doz.

If Brass Bushed, No. 310.

1½	1¾	2	2¼	2½ in.
6/3	7/6	8/9	11/3	14/- per doz

PATENT SECRET PULLEY,
Iron 1¾ in. 2/- per doz.
Brass Face and Wheel, 1¾ in.
5/6 per doz.

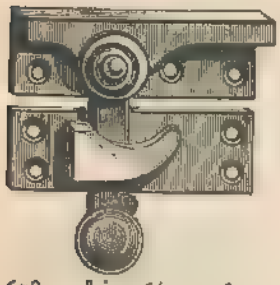
Special Quotations for Large Quantities.

ALSO PULLIES FOR CHAIN AND WIRE CORD IN STOCK.

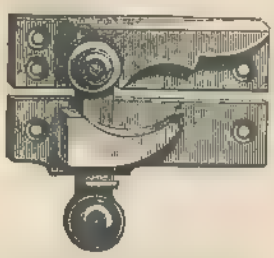
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

54, HIGH HOLBORN, LONDON, W.C.

SASH FASTENERS.



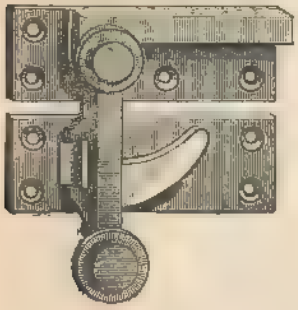
678. 2¾ in., 6/9 per doz.



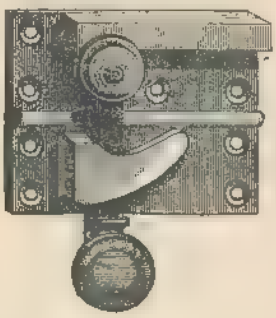
677. 2¾ in., 8/6 per doz.

4379. 2¾ in. 8/9, 3 in. 10/3 per doz
Narrow, 1900. 3 „ 10/-
C.K., 7227. 2¾ „ 13/- 3 „ 14/6 „

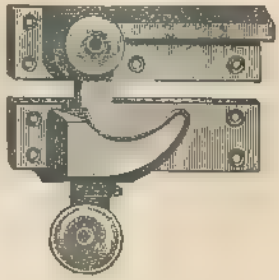
PARDOE'S PATENT CHANNEL WEDGE.



676. 3 in., 13/6 per doz.
If Reeded Knob, 14/6 „

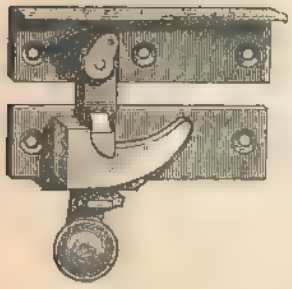


1400. Stamped 2½ in., 8/- per doz.
1404. Cast, 3 „ 13/4 „



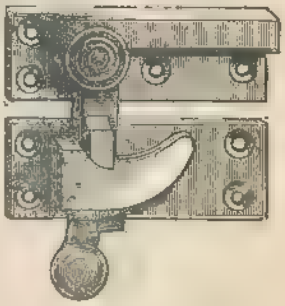
433. Cast, with China Knob 2¾ in., 10/6 per doz.

NETTLEFOLD'S PATENT SASH FASTENERS.



98. 2¾ in., 14/- per doz.
19. „ 15/6 „

This Fastener secures windows from being opened by burglars from the outside, who force back the arms by means of a knife or similar instrument inserted between the sashes. Its action is perfectly simple, the ordinary movement of the arms being sufficient to lock and unlock. No second operation being required, the act of fastening the window necessarily locks it, while it can be as easily opened from the inside as when closed by an ordinary sash fastening.



97. 3 in., 19/6 per doz.
20. „ 26/- „

SASH STOPS.

7922¼. Acorn, 5/- per doz.

3146. Drop, 2/10 per doz.

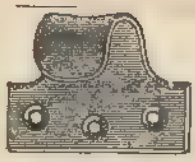
A large variety of Sash Fasteners besids above always in Stock.

ALL THE ABOVE KEPT IN STOCK.

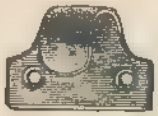
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NETTLEFOLD & SONS,

SASH LIFTS.



100. STAMPED.
1¾ 2 in.
2/6 3/4 per doz.



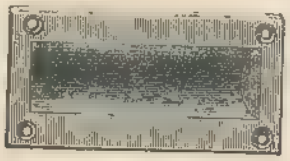
190.
1¼ 1¾ 2 in.
1/8 2/1 3/ per doz.

7,469. CAST.
3/3 per doz.

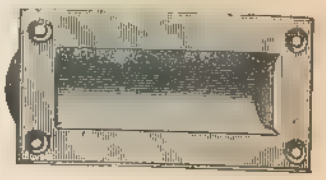
7471.
4/6 per doz.

7473.
With Catch, 7/6 per doz.

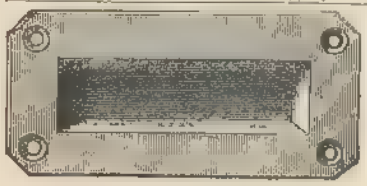
3107. 1⅛ in.
7/- per doz.



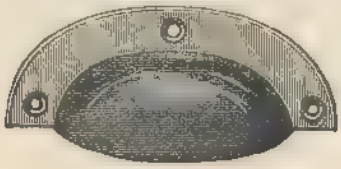
0930. Cast Front.
2½ 3 3½ 4 in.
4/9 5/10 6/6 7/6 per doz.



2318. Machine Made.
3 3½ in.
3/9 4/9 per doz.



3272.
3 4 in.
16/3 19/- per doz.



90. STAMPED.
3/3 per doz.

4983. CAST.
2½ 3½ in.
5/- 6/3 per doz.

SASH HANDLES.

1946.
Brass, 5/6 per doz.
Iron, 3/- „

3181.
4½ 5½ in.
2/9 3/8 doz.

2472.
6 6½ 7 8 in.
5/- 6/- 7/- 8/- doz.

CABIN HOOKS.

1401.
2 2½ 3 3½ 4 5 6 7 8 in.
1401. 4/3 5/- 6/- 7/3 8/ 9/8 12/3 pr. doz.
250. 6/- 7/3 9/3 10/6 12/6 13/6 14/9 „

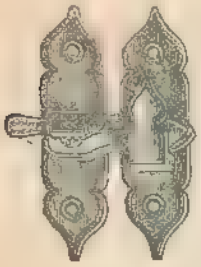
250.

ALL THE ABOVE KEPT IN STOCK.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

54, HIGH HOLBORN, LONDON, W.C.

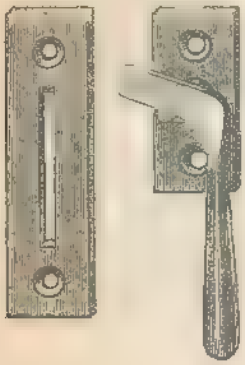
CASEMENT FASTENERS.



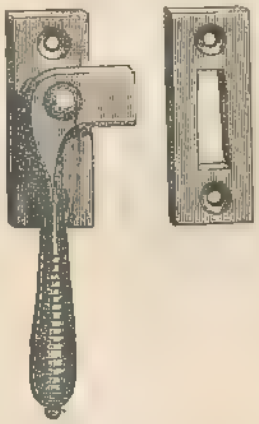
5096. Dead dipped, [illegible] per doz.

4309. Dead dipped, 11/6 per doz.
1853. Polished, 15/- ,,

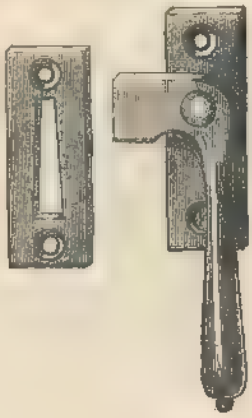
668. Polished, 13/6 per doz.



4308. Polished, 10/9 per doz.



3033. Polished, 18/6 per doz.

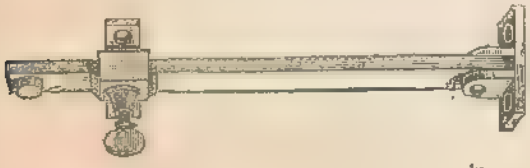


2290. Polished, 16/- per doz.

CASEMENT STAYS.

	9	10	12	15 in.	
2275. Malleable Iron	7/6	8/9	9/9	11/9	per doz.

	10	12 in.	
5926. Polished Brass ...	21/-	25/-	per doz.



	9	12 in.
0362. Wedge—Polished Brass ...	21/9	23/6

SHADBOLT'S FANLIGHT STAY.

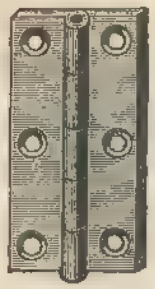
Phosphor Bronze ...	13/6	per doz
Copper	9/3	,,

ALL THE ABOVE IN STOCK. SPECIAL QUOTATIONS FOR QUANTITIES.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NETTLEFOLD & SONS,

BRASS BUTTS AND BACKFLAPS.

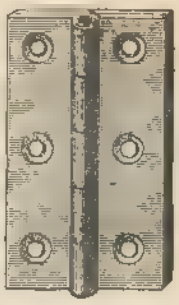


840.

1 in.	2/-	per doz.
1¼ ,,	2 3	,,
1½ ,,	2 6	,,
2 ,,	3/3	,,
2¼ ,,	4/3	,,
2½ ,,	4/9	,,
3 ,,	7/3	,,

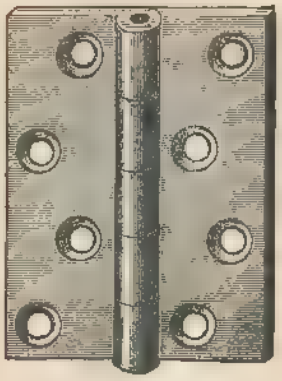
2056.

1¼ in.	3/1	per doz.
1½ ,,	3 3	,,
2 ,,	5 3	,,
2¼ ,,	6/-	,,
2½ ,,	6 6	,,
3 ,,	9/-	,,
3½ ,,	12/8	,,
4 ,,	20/-	,,



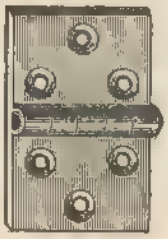
07392.

2½ in.	7/6	per doz.
3 ,,	13/-	,,
3½ ,,	17/3	,,
4 ,,	27/6	,,
4½ ,,	48/-	,,
5 ,,	58/6	,,



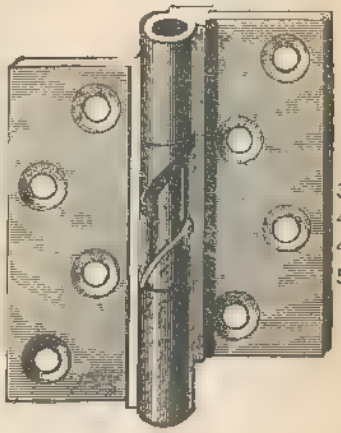
1982.

		per doz.
2 in.	7/-	
2½ ,,	10 6	
3 ,,	15	
3½ ,,	25/-	
4 ,,	35/-	
4½ ,,	50/-	
5 ,,	60/-	
6 ,,	90/-	



2048.

		per doz.
1 in.	5/6	
1¼ ,,	6/9	
1½ ,,	7/9	
1¾ ,,	10/-	
2 ,,	13/9	



3050. SKEW.

		per pair.
3½ in	9 3	
4 ,,	11 6	
4½ ,,	14/-	
5 ,,	16 9	

N.B.—All the above drawings are half size.

Stamped Brass Butts.

½	⅝	¾	1	1¼	1½	2 in.	
3/2	3/6	3/9	5/3	7/6	12/6	13/6	per gross.

Machine-made Brass Butts.

	1½	2	2½	3 in.	
Sanded	2/9	3/9	5/9	9/3	per doz.
Polished	3/8	4/10	7/3	11/-	,,

Screen Hinges, Double Action.

	¾	⅞	1	1¼	1½ in.	
141.	3/-	3/3	3/6	4/-	4/8	each.

Loose Pin Hinges.

1¼	1½	1¾	2	2¼	2½	2¾	3 in.	
3/4	4/-	4/6	5/-	6/2	8/-	11/6	19/-	per doz.

Single Steel Washer Butts.

	3	3½	4	4½	5 in.	
2838.	1/10	2/6	3/4	4/9	6/3	per pair.
01945.	Projecting		8/-	9/9	12/-	,,

Double Steel Washer Butts.

	3½	4	4½	5 in.	
6479.	3/-	4/6	5/9	7/3	per pair
1945. Projecting,		6/6	8/9	10/6	,,

Broad Butts

4 × 5 in. 6/- per pair, 4½ × 6 in. 7/9 per pair.

Counter-Flap Hinges

1¼ in. 21/6. 1½ in. 27/- per doz.

Pianoforte Hinges, and all kinds of Camera Hinges, &c., &c.

ALL THE ABOVE KEPT IN STOCK. SPECIAL HINGES MADE TO PATTERN.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

54, HIGH HOLBORN, LONDON, W.

SHOP SHUTTER SHOES AND FASTENERS, with Brass Pivots.

These Shoes, which entirely supersede the use of Shutter Bars, are now very generally used.

The Illustrations show the shoe required for a window where the shutters are put up, beginning at the right hand looking from the street. For the first or right hand shutter, use the shoes A and D with a brass pivot; for the second and all intermediate shutters use C and D, and for the last shutter use E and B.

If the shutters are put up from left to right, use the same kind of shoes reverse hand.

Where the shutters are put up partly from the right and partly from the left, finishing in the middle, use the shoes as above described right and left, and for the middle or last shutter use E or F, and in that case the shoe B will not be required. In every case a brass pivot is required for all the shutters except the last, which is fastened with a bolt and nut.

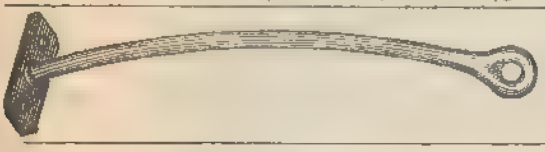
When sent out the packages of shoes are marked as follows:—Shoes A and B in one package marked "Plain Right" or "Plain Left," C and D are marked "Right Rebated" and "Left Rebated," and E and F are marked "Lasts."

2986.	A	B	C	D	E	F	
1 in.	8d.	7d.	8d.	7d.	8d.	8d. each.	
1⅛ "	9½d.	8d.	9½d.	8d.	8d.	8d. "	Brass pivots 4d. each.
1¼ "	11d.	9d.	11d.	9½d.	9½d.	9½d. "	

SKYLIGHT STAY.

1752.

12	15	18	21	24	27	30	36 in.
10/3	12/9	14/6	16/3	18/-	21/-	24/-	31/- per doz.



QUADRANT STAY.

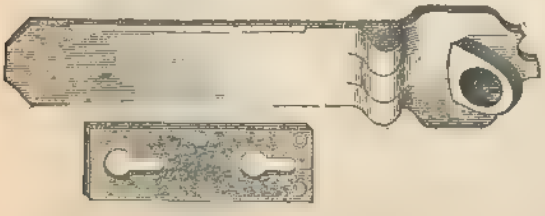
3894.

8	10	12	15	18	21	24 in.
5/9	6/6	7/9	9/-	11/-	14/-	19/6 per doz.

LOCKING BARS.

3430.

10	12	14	16	18 in.
18/-	25/-	30/-	39/-	62/- per doz.



3450.

10	12	14	16 in.
23/-	27/-	31/-	53/- per doz.

STABLE LATCH.

3438.

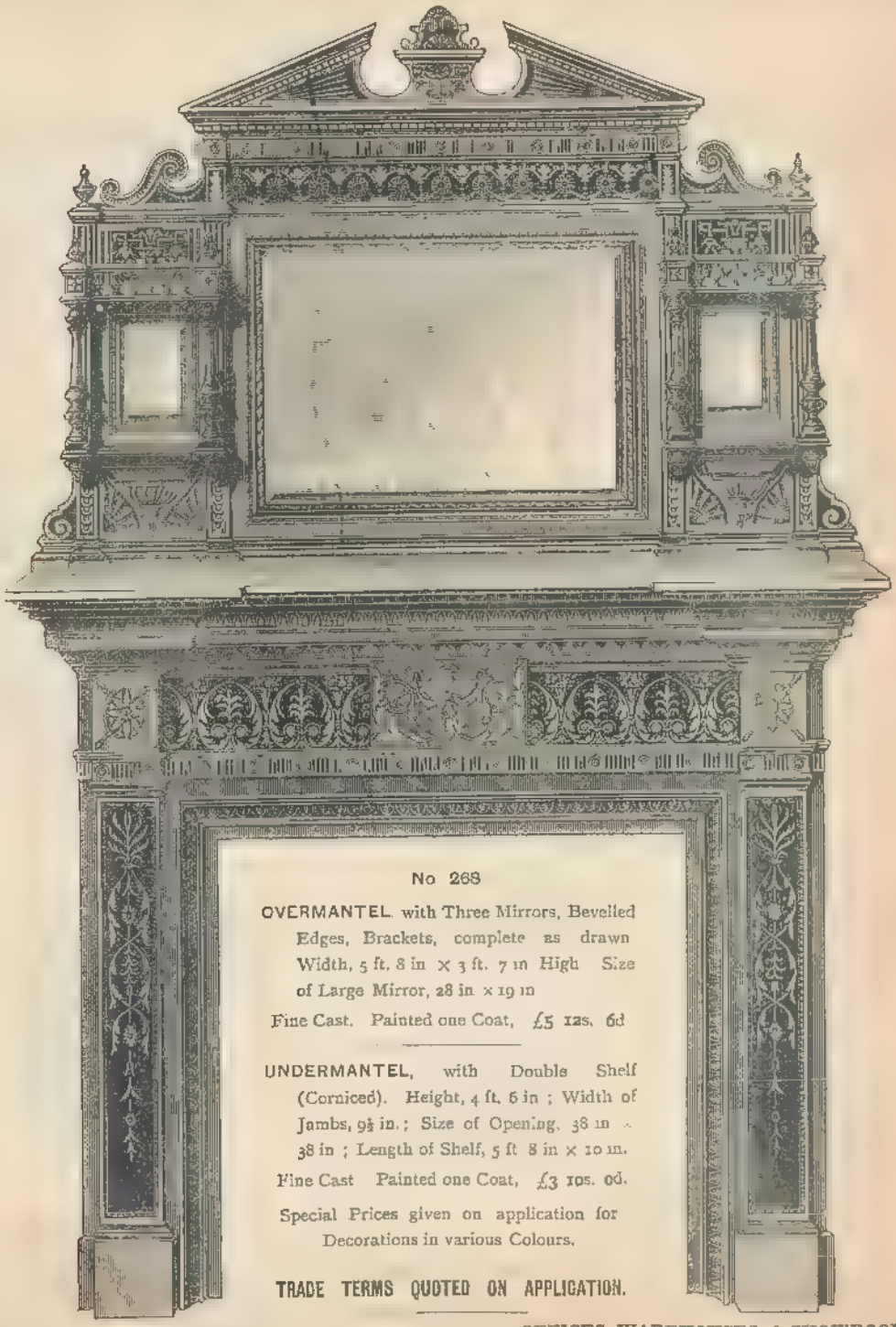
4¼ × 3½ × ⅝ in.

26/- per doz.

THE ABOVE KEPT IN STOCK.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

IRON CHIMNEY PIECE & OVERMANTEL.



No 268

OVERMANTEL, with Three Mirrors, Bevelled Edges, Brackets, complete as drawn Width, 5 ft. 8 in × 3 ft. 7 in High Size of Large Mirror, 28 in × 19 in

Fine Cast. Painted one Coat, £5 12s. 6d

UNDERMANTEL, with Double Shelf (Corniced). Height, 4 ft. 6 in ; Width of Jambs, 9½ in. ; Size of Opening, 38 in × 38 in ; Length of Shelf, 5 ft 8 in × 10 in.

Fine Cast Painted one Coat, £3 10s. 0d.

Special Prices given on application for Decorations in various Colours.

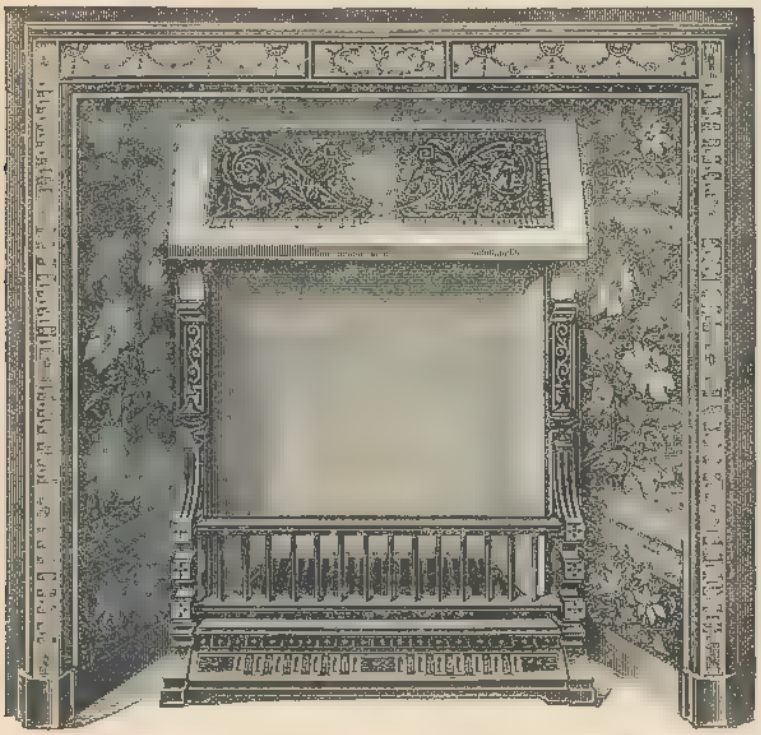
TRADE TERMS QUOTED ON APPLICATION.

O'BRIEN, THOMAS & Co.'S OFFICES, WAREHOUSES, & SHOWROOMS, 228 AND 229, UPPER THAMES STREET, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

REGISTERED ART BRONZED TILE GRATE

WITH LIFT-OFF CANOPY.



322.

SIZES MADE 38 to 40 inches.

Register Tile Stove with Lift-off Canopy and Fitted Front Moulding, with Improved Solid Brick Back and Vertical Bars and Brass Knobs, Grate Bottom, and Fret, prepared for either 6 or 8 inch Tiles.

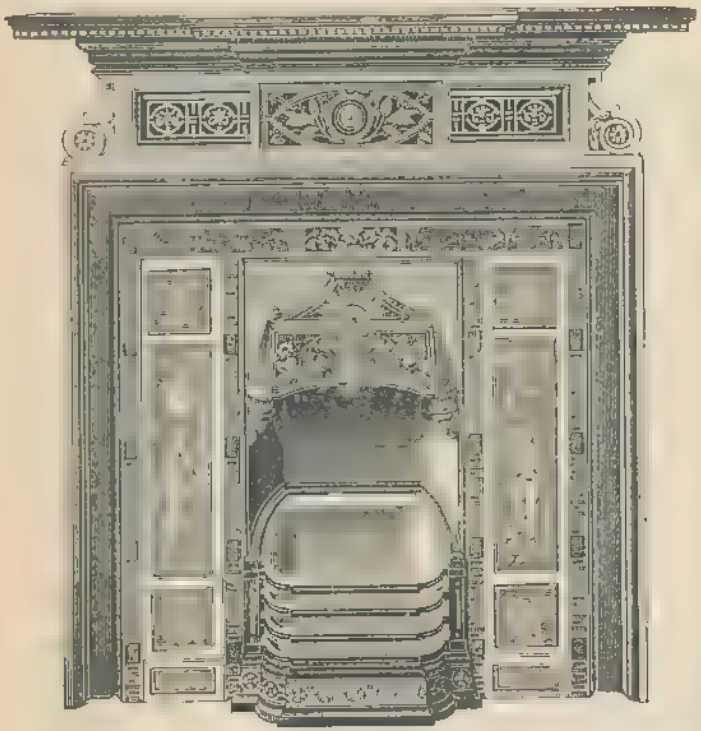
	£	s.	d.
Best finish, Berlin Black	4	14	0
If Electro Victoria Bronze	6	12	0
If Registered Art Bronze	7	0	0
If Cast Brass, Mouldings and Canopy	13	10	0
If with 8 inch Tiles, extra from...	2	0	0

TRADE TERMS QUOTED ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

MANTEL REGISTER,

WITH DOUBLE SHELF (CORNICED).



No. 305.

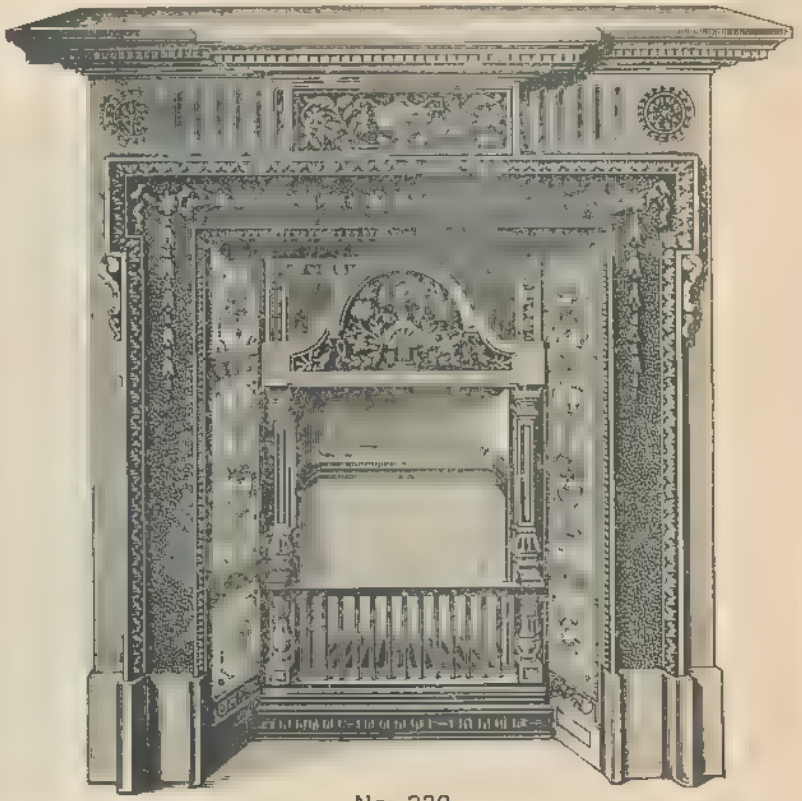
Mantel piece with Stove complete, fitted with Cast iron Panels on the flat with projecting Canopy and Bars, Brick Back and Sides, in 3 parts Slow Combustion or Grate and Fret.

Width 42 in Height 51 in Shelf 46 in × 7 in

Fine Cast Stove Mantel 1 Coat Paint	£2 6 0
3rd Finish Stove, ...	2 10 0
2nd Finish	2 16 3
Best Finish	3 5 0

REGISTERED DESIGN, ADAM MANTEL,

With Double Shelf (Corniced), and Stove, complete, as shown



No. 332.

SIZE 3 ft 8 in wide 4 ft 4 in high [illegible] Shelf 4 ft 7 in × 10½ in

Mantel only, Fine Cast 1 Coat Paint . .	£1 15 0
Interior, prepared for Tile Sides [illegible] Back, [illegible] 3 parts as shown	
Fine Cast [illegible]	£3 15 0
3rd Finish [illegible]	3 19 0
2nd Finish [illegible]	4 10 0
Best Finish [illegible]	5 0 0
If with Tiles as drawn .. extra	0 9 6
If with Electro Bronzed Canopy and Pillars . ..	0 18 9

TRADE TERMS QUOTED ON APPLICATION.

O'BRIEN, THOMAS & CO.'S Offices, Warehouses and Show Rooms, 228 & 229, UPPER THAMES STREET, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HIGH CLASS INTERIOR, UNIQUE DESIGN.

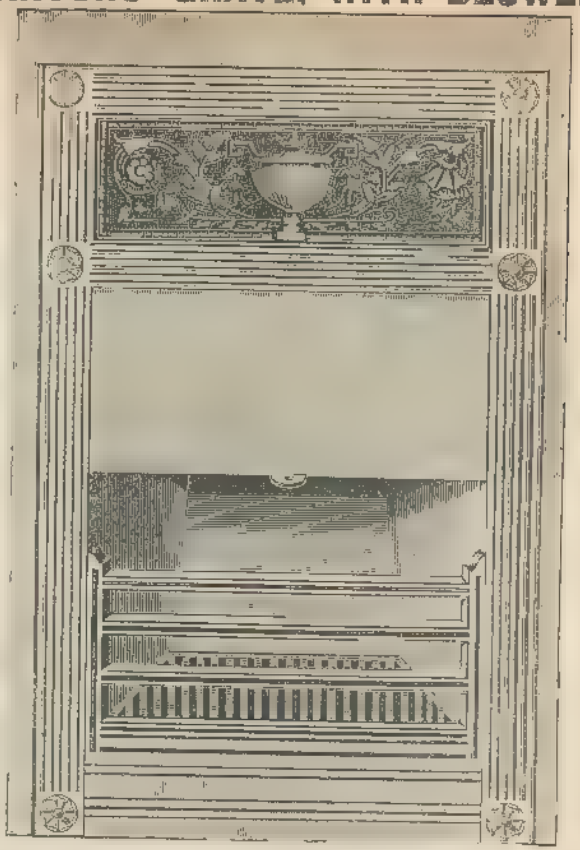
No. 298c.

With Art'd Canopy and Pillars, fitted Bars and Fret, Slow Combustion Bottom or Grate and Fret, and Inside Grid to Bars.

Sizes made 24 in. x 36 in. or 38 in.

Best Finished, Electro-Bronzed Canopy, Pillars, and Fret	£4 14 0
If Art Bronzed, Copper on Brass	5 4 0
If Cast Brass, Chased and Finished in Best Style ...	8 13 9

PARSONS' GRATE, WITH BLOWER.



No. 289.

REGISTERED INTERIOR, with Berlin Black Curtain, or prepared for Tiles (if with Tiles *Extra* as per cost). With Sham Back back and sides in three parts, Grate bottom and Fret with Blower complete as drawn.

If Tiles in Curtain, no Blower can be fixed

Sizes Made	Price		Price
20 × 36	16 inch	Best Finish	£2 7 0
22 × 26	19 "	Second Finish .	1 19 6
24 × 36	18 "	Third Finish	1 15 9
		Fine Cast . . .	1 12 0

If Curtain Electro-bronzed 9/6 extra.

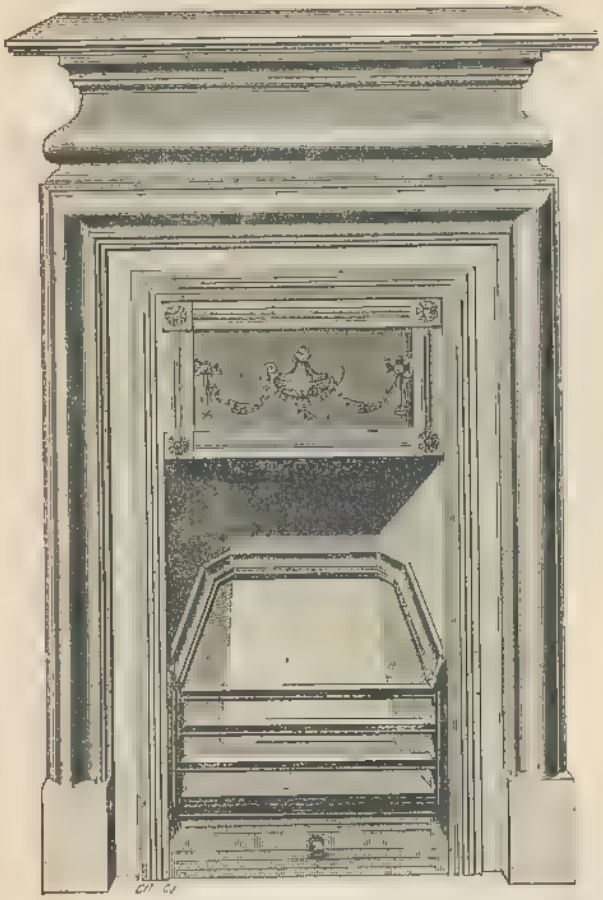
Milner Backs 3/9 extra. If without Blower, 5/9 less

TRADE TERMS QUOTED ON APPLICATION.

O'BRIEN, THOMAS, & CO.'S Offices, Warehouses and Showrooms, 228 & 229, UPPER THAMES STREET, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CLASSICAL BED-ROOM MANTEL REGISTERS.

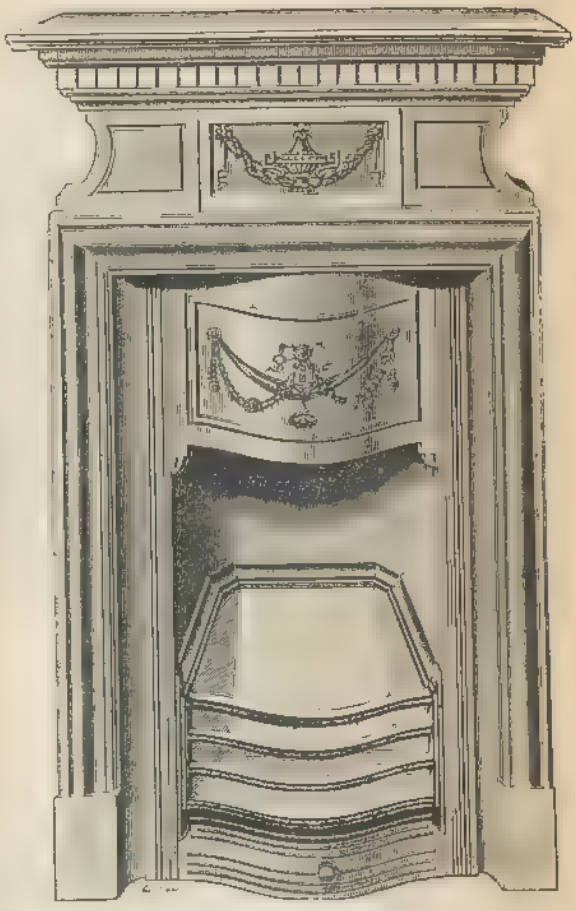


No. 350.

MANTEL REGISTER with Double Shelf, corniced, with Improved Chair Brick Back and Brick Sides, Slow Combustion, or Grate and Fret.

Size 30 × 47ins.; Shelf 32 × 8ins. wide, 16in. Fire

Fine Cast, one coat of paint	£1 17 6	
If with Blower	extra	0 5 9



No. 351.

MANTEL REGISTER, with Double Shelf, corniced, with Improved Chair Brick Back and Brick Sides, Slow Combustion, or Grate and Fret.

Size 30 × 47ins.; Shelf 32 × 8ins. wide; 16in. Fire.

Fine Cast, one coat of paint	£1 17 6	
If with Blower	extra	0 5 9

TRADE TERMS QUOTED ON APPLICATION.

O'BRIEN, THOMAS & Co.'S OFFICES, WAREHOUSES, & SHOWROOMS 228 & 229, UPPER THAMES STREET, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE "STERLING" TILE REGISTER.

WITH PATENT MOVEABLE CANOPY & SLIDING BLOWER & SOLID FIRE BRICK BACK.

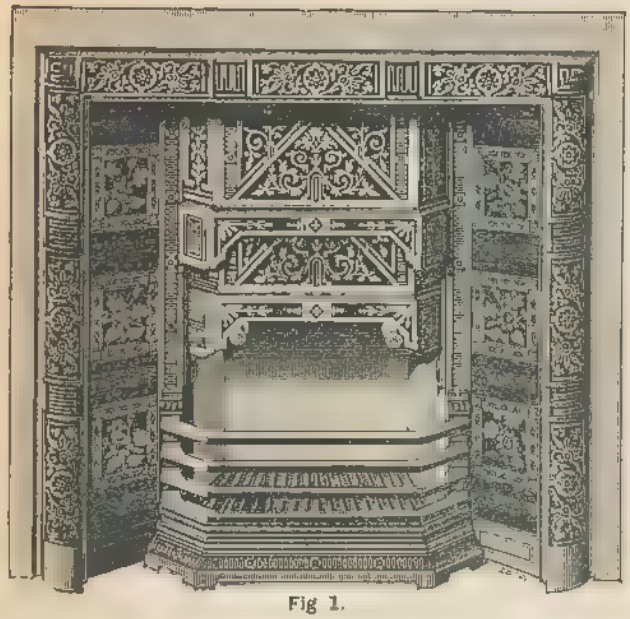


Fig 1.

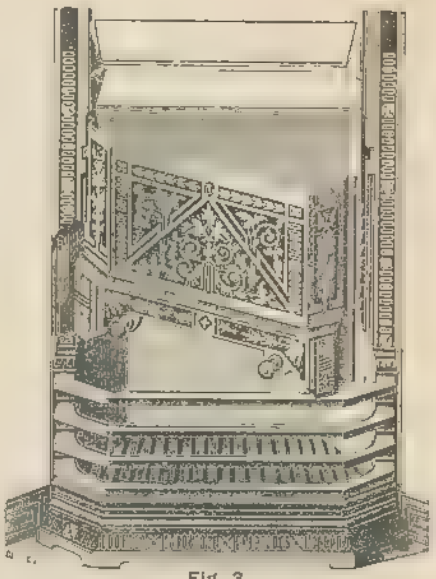


Fig 3.
View of Interior, showing Canopy removed and Blower partly removed.

Fig 2
Section showing both Canopy and Blower removed.

The above Stove meets a long-felt want for a Stove that will cure a smoky chimney and quickly produce a bright fire where there is a sluggish draught, and yet give free access to the chimney for sweeping or for fixing the Grate.

Fig. 1 shows the Stove complete, with Blower partly drawn down.

Fig. 3 shows the Interior of Stove, with the Canopy (which is hooked on) removed and the Blower partly removed, which is done in a very simple manner, as follows:—

After removing the Canopy by a slight upward, outward, and then downward motion, the inner Canopy or Blower should be let down to its lowest point, when, by a slight movement to the left, the right hand side will be liberated from its slide and the whole can be removed, as shown in drawing, Fig. 3.

The Blower cannot by any means be removed out of its slides until the removal of the Canopy.

Fig. 2 shows section of Stove with both Canopy and Blower removed, giving free access to the chimney.

PRICES.—Prepared for 6 in. Tiles.

Best Finish Berlin Black and Gilt relief	...	...	...	£4 4 6
2nd Finish " "	...	...	...	3 10 0

Tiles from 7/6 per set.

TRADE TERMS QUOTED ON APPLICATION.

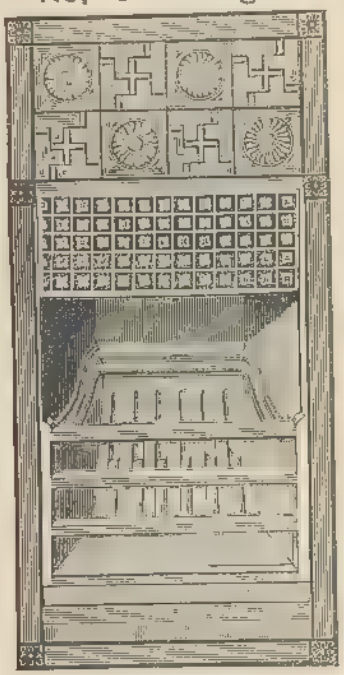
O'BRIEN, THOMAS & Co.'s OFFICES, SHOWROOMS & WAREHOUSES: 228 & 229, UPPER THAMES STREET, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE PARSON'S STOVE.

The Blowers of these PARSONS' Stoves are of Cast Iron, and can be adjusted to any position It is impossible for them to get out of order, or to bend through expansion or contraction of metal

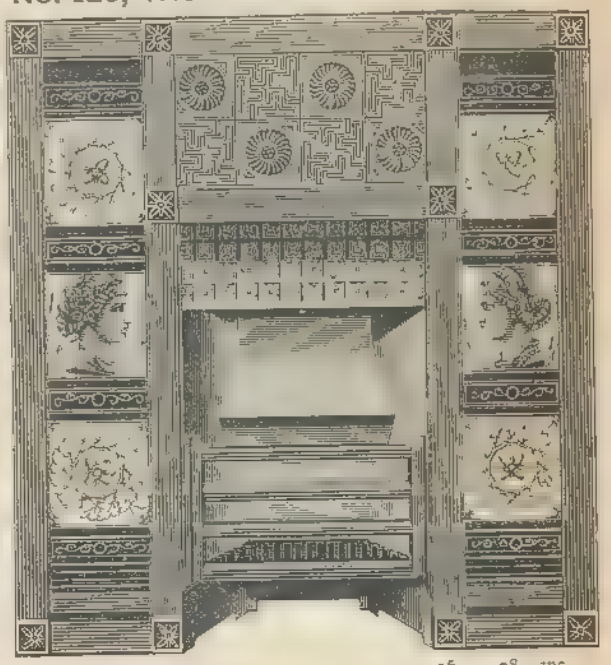
No, 50 Design.



Sizes	18	20	22	24 ins.
Fine Cast ..	15/-	16/3	17/3	20/- each
Second Finish ..	27/6	28/9	30/-	31/3 "

If with Milner Back Brick, as shown in No. 126 Design, 5/- extra.

No. 126, With Milner Fire Brick Back.



Sizes	30	32	34	36	38 ins.
Fine Cast	22/6	22/6	23/3	23/9	27/- each.
Second Finish ..	33/9	35/6	37/6	38/6	40/- "

These quotations do not include Tiles, which are left to selection, and can be supplied in a very large variety of patterns and qualities.

OUR SHOW ROOMS

Contain a very large selection of the following Goods—

CHIMNEY PIECES, in Wood, Iron, Marble of all kinds, and Enamelled Slate. OVERMANTELS in Wood and Iron to correspond. TILE PANELS FOR STOVES, AND HEARTHS TO MATCH, from the cheapest printed qualities to the most expensive hand-painted designs. CURB FENDERS in Marble, Iron and Brass. DOG STOVES, INTERIORS, BATHS, in Metallic, Lorionde and Porcelain Enamels of the first quality.

TRADE TERMS QUOTED ON APPLICATION.

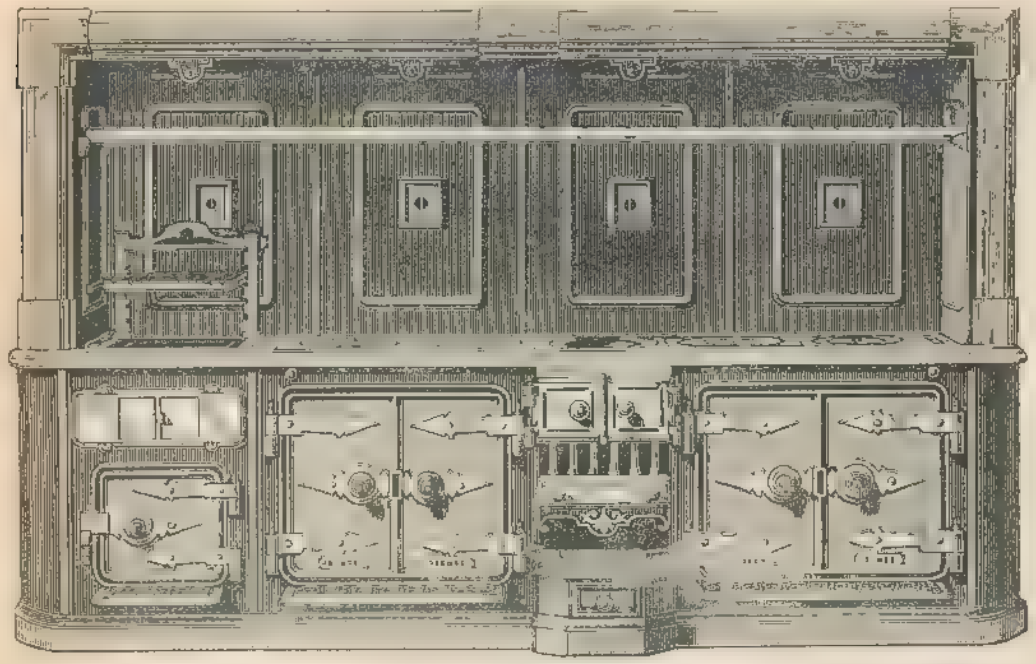
O'BRIEN, THOMAS & Co.'S OFFICES, WAREHOUSES & SHOWROOMS, 228 & 229 UPPER THAMES STREET, LONDON E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE "HOTEL" KITCHENER.

This is a superior class Kitchener, designed expressly for use in Hospitals, Hotels, Workhouses, or other large Institutions

The Hot Plate is $\frac{7}{8}$ of an inch thick, and framed, the centre plates and rings being removeable. The strength of this Kitchener may be judged by the fact that the 8 feet size exceeds 20 cwt. in weight



Size Wide	First Oven Wide	First Oven Deep	First Oven High	Second Oven Wide	Second Oven Deep	Second Oven High	Third Oven, or Hot Closet, Wide	Third Oven, or Hot Closet, Deep	Third Oven, or Hot Closet, High	Fires. Width	Grill. Depth	H. Plate. Depth	Hob. Height	Coves. Height	Price. With Covings, etc.
5 ft 6 in	[illegible]	[illegible]	21 in	20 in	[illegible]	[illegible]	Not made in the 5 ft. size			12 in	not made	22 in	32 in.	32 in	£28 15 0
6 0	24	24	21	22	23	21				14		24	32	32	31 5 0
6 6	24	23	21	26	24	1				14		24	32	32	38 10 0
7 0	22	23	21	0	24	21	17 in	20 in	13 in	14	12 in	24	32	32	45 0 0
7 6	2[illegible]	[illegible]	21		23	21	14	21	13	14	13	24	32	32	47 10 0
8 0	[illegible]	[illegible]	[illegible]	24	23	[illegible]	14	21	13	14	14	24	32	32	52 10 0

These Dimensions may be varied to suit special requirements

Largest Stock of Kitcheners of all Qualities and Sizes in the United Kingdom.

COTTAGE KITCHENER, from £1 12s. each, according to size and quality.
VILLA KITCHENERS, from £3 15s. each Ditto.
MANSION KITCHENERS, from £7 10s. to £52 10s. Ditto.

32 PATTERNS AND QUALITIES TO SELECT FROM.

STOCK OF 4,000 KITCHENERS ALWAYS ON HAND IN OUR LONDON WAREHOUSES.

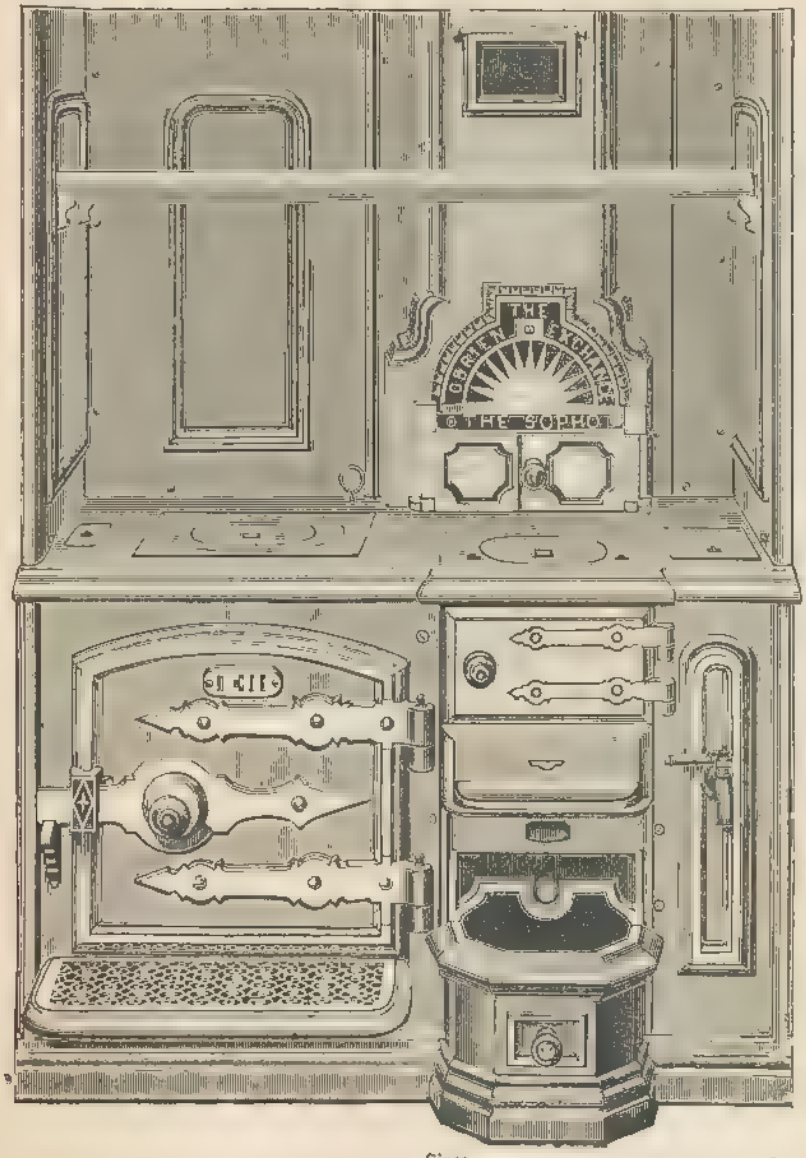
TRADE TERMS QUOTED ON APPLICATION.

O'BRIEN, THOMAS & Co.'s OFFICES WAREHOUSES & SHOWROOMS: 228 & 229, UPPER THAMES STREET, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE "SOPHO."

NEW REGISTERED SELF-SETTING KITCHENER.



Fitted with the "O'Brien Exchange" Convertible Open & Close Fire Arrangement.

SIMPLICITY IN CONVERTING FROM A CLOSE TO AN OPEN FIRE.

The arrangement for converting from a Close to an Open Fire is so simple that the most inexperienced domestic can easily work it The alteration is effected by opening the two small doors at back, and placing the centre piece of fire cover or hot plate on the top of the doors; there is, therefore, no part of the Range left lying uselessly in the way.

PERFECT VENTILATION.

The principal objection to a close Fire Range has been got rid of by the introduction of a ventilator on the flue, by which means the kitchen can be kept perfectly cool and free from smells.

These Prices are with Side Boiler. If fitted with L Boiler, 5s. extra.

Height to Hob, 24 inches, Depth of Hob, 17½ inches; Height of Coves, 26 inches; Height of Funnel, 29 inches.

	Sizes ..	30	33	36	39	42	inches
With Skirtings	Oven and Sham	72/0	76/3	80/0	84/6	88/9	each.
	Oven and Boiler	80/0	83/0	87/6	91/3	97/0	"
With Coves and Plate Rack	Oven and Sham	93/0	97/0	102/0	106/3	110/3	"
	Oven and Boiler	102/0	105/0	109/6	113/9	119/6	"

If fitted with L Boiler instead of Square Boiler, 7s. extra.

TRADE TERMS QUOTED ON APPLICATION.

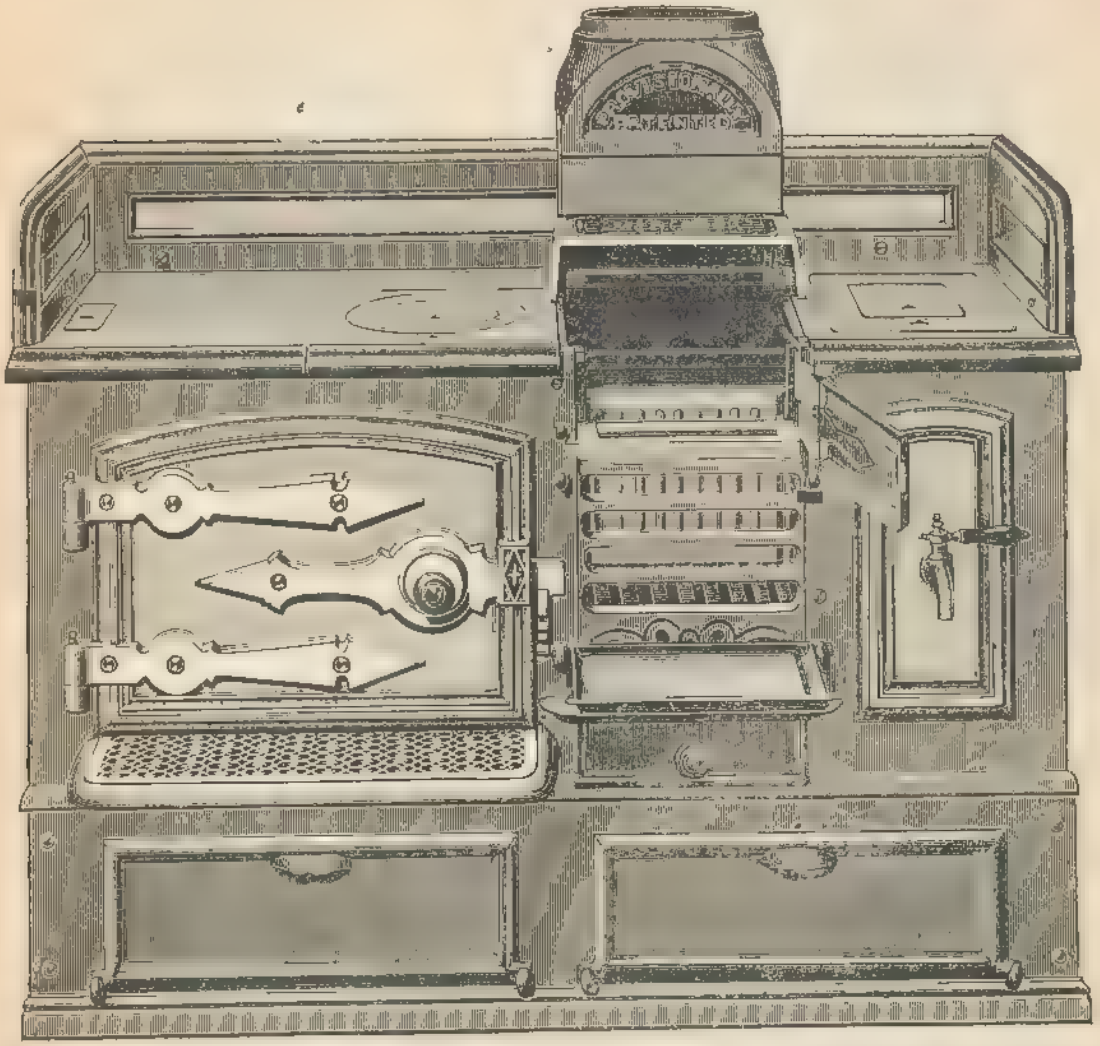
O'BRIEN, THOMAS & Co.'S OFFICES, WAREHOUSES, & SHOWROOMS, 228 AND 229, UPPER THAMES STREET, LONDON, E.C

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE "MERCADOR."

NEW REGISTERED PORTABLE COOKING RANGE, (PROVISIONALLY PATENTED.)

WITH OPEN AND CLOSE FIRE ARRANGEMENT AND HOT CLOSET.



The above Drawing represents "THE MERCADOR" in use as an open fire and fitted with Skirtings round back and sides
It can be converted to a Close Fire INSTANTANEOUSLY.

The following quotations are for the "MERCADOR" Range fitted on Legs (instead of with Hot Closets) and without Skirtings being the form in which it is generally sold.

	Sizes 20	24	26	27	28	30	32	33	34	36	38	40	42 inches
Oven and Sham	.. 33/9	39/6	42/3	42/3	47/-	52 6	55/-	55/-	58/-	58/-	60/9	..	.. each
Oven and Boiler	.. ..	..	..	..	55/-	58/-	58/-	63/	67/-	67/-	77/-	82/6	88/- "

EXTRA FOR HOT CLOSETS.

Sizes from 20 to 30 inches, 11/3 extra. | Sizes from 32 to 36 inches, 13/- extra. Extra for Skirtings in all sizes 7/6. | Sizes from 38 to 42 inches, 15/0 extra.

TRADE TERMS QUOTED ON APPLICATION.

O'BRIEN, THOMAS & Co.'S OFFICES, WAREHOUSES & SHOWROOMS: 228 & 229 UPPER THAMES STREET, LONDON, E.C.

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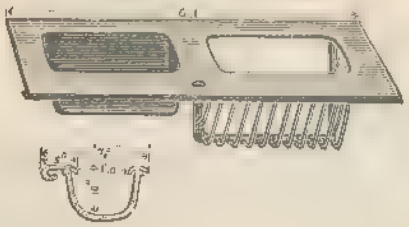
IMPROVED STABLE FITTINGS.

No. 2. MANGER SET.

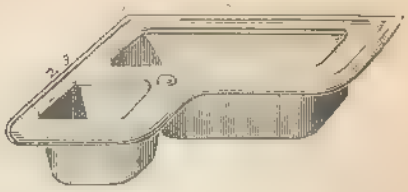
Right or Left Hand



Black	£1 10 0
Galvanized	2 11 3
Porcelain Enamelled	3 0 0

No. 22. MANGER SET.

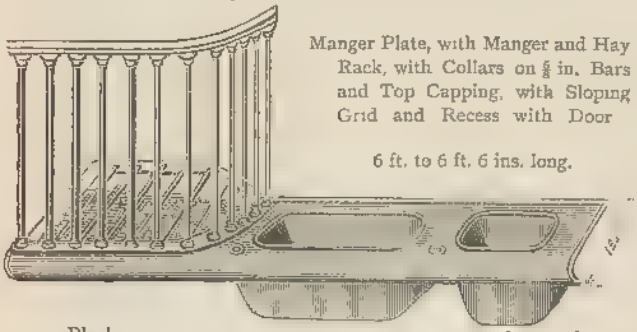
Right or Left Hand.



Black	£0 17 3
Galvanized	1 13 0
Porcelain Enamelled . .	1 16 0

No. 17. MANGER SET.

Right or Left Hand.



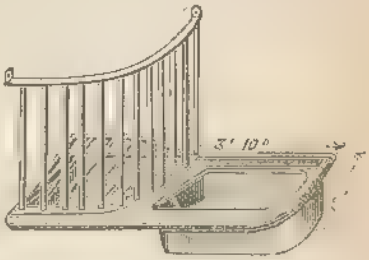
Manger Plate, with Manger and Hay Rack, with Collars on ⅝ in. Bars and Top Capping, with Sloping Grid and Recess with Door

6 ft. to 6 ft. 6 ins. long.

Black	£2 13 6
Galvanized	4 2 6
Porcelain Enamelled	4 6 6

No. 25. MANGER SET.

Right or Left Hand.



Manger and Hay Rack, with Sloping Grid

Black	£2 3 9
Galvanized	2 13 6
Porcelain Enamelled	2 18 0

LOOSE BOX DIVISIONS, STALL DIVISIONS,

MALLEABLE STABLE BRACKETS OF ALL KINDS

Straight and Spiral Staircases. Rain Water Pipes, Gutters and Connections.

GATES AND RAILINGS, CRESTINGS, BALUSTERS.

RESTAURANT TABLES, GARDEN SEATS, UMBRELLA STANDS.

BAKERS' OVEN WORK. PORTABLE STOVES & RANGES.

Builders' Ironmongery, Electric Bells and Fittings.

BATHS IN ALL QUALITIES, & KITCHEN SINKS WITH PORCELAIN ENAMEL OF THE BEST QUALITY.

Cisterns and Tanks, Galvanized Iron Roofing.

PRICE LIST, CONTAINING 620 PAGES AND 1,500 ILLUSTRATIONS, FORWARDED TO ARCHITECTS, POST FREE, UPON APPLICATION.

MONTHLY TRADE CIRCULAR. Subscription 2s per annum, issued on the 1st of each month containing full particulars of all fluctuations in price

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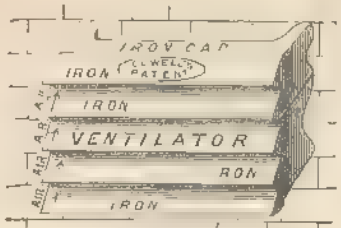
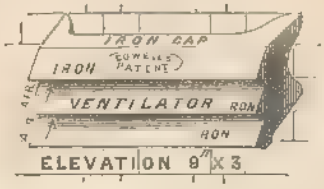
VENTILATING.

COWELL'S PATENT VENTILATING AIR BRICK.

FOR ADMISSION OF FRESH AIR THROUGH EXTERNAL WALLS WITHOUT WET





These Air Bricks will be found far preferable to the ordinary kind, as it is impossible for rain to get into them. They are made on the principle of a venetian blind, one bar over lapping the other. In addition to the advantage of excluding rain, this mode of construction increases the draught considerably, so that there is a three times stronger current of fresh air drawn in and damp walls become dry after these are fixed.

	Sizes 9×3	9×6	12×6 inches.
Painted ..	8/- ..	15/- ..	22/6 per doz.
Galvanized ..	13/- ..	24/- ..	36/- per doz

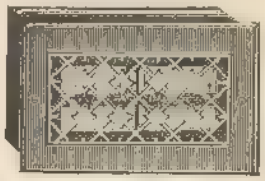
IMPROVED MICA OUTLET VENTILATORS.

(BOYLE'S PATENT)

FRONT OF VENTILATOR. (11×7).

BACK OF VENTILATOR.

WITH BRASS TRELLIS FRONT

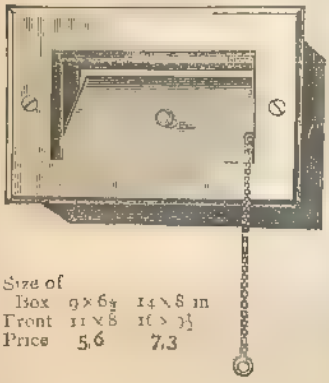


For the discharge of Heated and Vitiated Air from Rooms, to the Smoke Flue. The Valves are made of Mica, which is Light, Rigid, and Incombustible, and are so sensitive that they open with the slightest appreciable up-current in the flue, immediately close against down draughts and effectually prevent any smoke entering the room.

Size of Box	9×3	9×5½	9×7¾	9×9½	13½×9½ inches.
Size of Front	11×5	11×7	11×9	11×11	16×11 inches.
Plain Iron	3/3	4/9	6/6	8/0	14/6 each
With Brass Trellis Front ..	5/0	7/3	9/6	12 3	16 3 each

ARNOTT'S VENTILATORS.

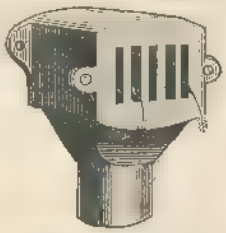
For insertion into the Chimney Breast to carry off the heated and impure air from the top of the room



Size of Box	9×6½	14×8 in
Front	11×8	16×9½
Price	5.6	7.3

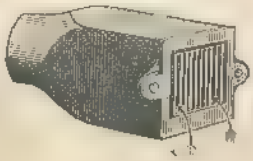
GALVANIZED IRON FRESH AIR MICA INLET VALVE.

For Ventilating Drains and Sewers by the admission of a Current of Fresh Air



VERTICAL

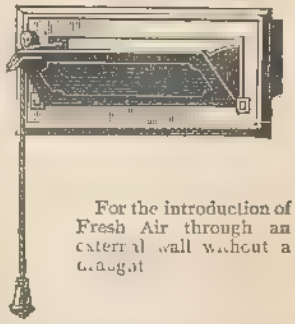
For 3 inch Pipe .. 7 3
For 4 " .. 9/-



HORIZONTAL

For 3 in Pipe .. 6,3
For 4 " .. 7 6

SHERRINGHAM'S VENTILATORS.



For the introduction of Fresh Air through an external wall without a draught

Size of Box	9×3	9×6	13½×6
Front	11½×5½	11×8½	16×8½
Prices ..	3.7	4,10	6.6
Balance Weights ex	,6	7	7½
Leading Pulleys ex	'5	·5	5

TRADE TERMS QUOTED ON APPLICATION.

O'BRIEN, THOMAS & Co.'S OFFICES, WAREHOUSES, & SHOWROOMS 228 & 229, UPPER THAMES STREET, LONDON, E.C.

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" 4. TILED REGISTER STOVES, AND DOG STOVES
" 5 TILES FOR STOVES AND HEARTHS
" 6 SUNDRY STOVES
" 7 ENGLISH OPEN AND CLOSE FIRE RANGES
" 8. AMERICAN STOVES AND RANGES
" 9. RAILINGS AND GATES
" 10 STABLE FITTINGS
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" 12. BUILDERS' SUNDRIES
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" 15. RESTAURANT TABLES & GARDEN REQUISITES
" 16. CHIMNEY PIECES, CURB FENDERS, & FIRE IRON RESTS
" 17. BUILDERS' IRONMONGERY
" 18 ELECTRIC BELL FITTINGS
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" 20. MANUFACTURED WOOD GOODS

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SUMMARY OF GOODS

MANUFACTURED AND SOLD BY

O'BRIEN, THOMAS & COMPANY,

228, & 229, UPPER THAMES STREET, LONDON, E.C.

Air Bricks
Area Gratings
Automatic Indicating Bolts
Axle Pulleys
Back Flap Hinges
Bakers' Oven Work
Ball Levers
Ball Valves
Bar Handles for Doors
Bar Handles with Letter Plates
Barrel Bolts
Basins, Lavatory
Bath Boilers
Baths Cast Iron
Bath Fittings
Bay Window Columns
Bedroom Door Chains
Bells and Fittings, Electric
Bib Cocks
Blind Hooks
Blind Rack Pulleys
Blind Roller Brackets
Blind Roller Ends
Boiler Elliptic Grates
Boiler Screws
Bolts, Barrel
,, Brass Flush
,, Coach House Door
,, Cupboard Espagniolette
,, Indicating Automatic
,, Monkey Tail
,, Tower
Bolts and Nuts, Engineers'
Bow Latches
Brackets, Partition
,, Shelf
Builders' Hooping
Bulls' Eye Lights
Butt Hinges
Buttons
Cabin Hooks and Eyes
"Camus" Kitchener
Canadian Latches
Caps and Linings
Carriage Entrance Gates
Casement Fasteners
Casement Hooks and Eyes
Casement Stays
Centre Door Knobs
Chimney Bars
Chimney Cramps
Chimney Pieces, all kinds
China Door Furniture
Cisterns and Tanks
Cisterns, Waste Preventing
Cleat Hooks
Closets
Clothes Posts
Clothes Post Sockets
Clout Nails
Coach House Door Bolts
Coach Screws
Coal Plates
Cockspur Fasteners
Columns
Contacts
Copings
Copper Coppers
Copper Doors and Grates
Coppers Portable
Copper Wire
Cord Fasteners
"Coronet" Kitchener
Corrugated Roofing
Cottage Ranges
Counter Flap Hinges
Cowls
Crestings
Cross Garnet Hinges
Cupboard Bolts
Cupboard Locks
Cupboard Turns
Cup Hooks
Curb Fenders
Cut Clasp Nails
Dampers and Frames
Dead Lights
Dead Locks
"Deluge" Waste Preventing Cistern
Desk and Bench Standards
Dog Stoves
Door Chains
Door Handles
Door Numbers
Door Springs, Smith's Patent
Draw Back Locks
Drawer Handles
Drawer Knobs
Drawer Pulls
Dresser Hooks
"Duet" Range
Dumpy Stove
Dust Bins
Earth Closets
Electric Bells and Fittings
Electric Bell Wire
Elliptic Stoves
Elliptic Stoves with Boiler
Emery Cloth
"Empress" Range
"Enchantress" Range
Espagniolette Bolts
"Excelsior" Stove
"Exchange" Kitcheners
False Bottoms
Fenders, Curb
,, Kitchen
Finger Plates
Finials
Floor Brads
Flush Bolts Brass
Flush Handles
Flush Rings and Plates
Frame Pulleys
Furnace Bars
Furnace Pans
Garden Bordering
Garden Grates and Frames
Garden Rollers
Garden Seats
Garden Tables
Garden Vases and Pedestals
Gas and Steam Tubes
Gas Lamp Posts
Gate Latches
Gate Lock Furniture
Gate Stops
Girders
Glass Door Furniture
Glass Paper
Glue
Glue Pots
Gothic Latches
Gratings Area
,, Hot Water
,, Ornamental
,, Ventilating
Greenhouse Stays
Gulley Gratings
Gutter Brackets
Hall Door Chains
Hall Door Furniture
Hall Door Knobs
Hand Rail Screws
Hanging Pieces for Brick Piers
Harness Brackets
Harness Room Stoves
Hat and Coat Hooks
Hat Pins
Hay Racks
Hearth Tiles
High Pressure Boilers
Hinges, Back Flap
,, Butts
,, Counter Flaps
,, Cross Garnet
,, Water Joint Tees
Holdfasts
Hooks and Rides
Horse and Mare Pots
Hot Bed Handles
Hot House Pulleys
Hotel Kitchener
Indicators, Electric
Interiors
Ironing Stoves
Jaw Boxes
Joiners' Brads
Kent Grates
Kitchener Boilers
Kitchener Bricks
Kitchen Fenders
Kitchen Sinks
Knockers
Lancashire Thumb Latches
"Larbert" Ranges
"Larbert" Slow Combustion Stoves
Latches, Bow
,, Canadian
,, Gate
Lancashire
,, Night
,, Norfolk and Suffolk Pulpit
,, Rim
,, Sash
,, Stable Door
Latch Furniture
Lath Nails
Laundry Stoves
Lavatory Basins
Lavatory Taps
Lead Pipe
"Leamington" Kitcheners
Leclanche Batteries
Letter Plates
Letter Plate Handles
Lifting Handles
Lightning Conductors
"Lily" Stoves
Liverpool Traps
"Livingstone" Ranges
Locking Bars
Locking Boxes
Locks, Cupboard
,, Dead
,, Draw Back
,, Mortice
Rim
,, Sash
,, Stock or Plate
Mangers
"Mansion" Kitchener
Mantel Registers
"Matchless" Slow Combustion Stoves
Mason Stoves
"Mercator" Stoves
Monkey Tail Bolts
Mortice Furniture
Mortice Locks
Mortice Sash Latches
Mortice Sash Locks
Nails
Navigator's Wheels
Necked Barrel Bolts, Brass
Newel Bars
Night Latches
Norfolk Latches
Nursery Stoves
"O'Brien Exchange" Kitchener
Oval Wire Nails
Over Doors
Overmantels
Pails
"Parson's" Stoves
Partition Brackets
Pig Troughs
Plate or Stock Locks
Plumbers' Brass Foundry
Plumbers' Pots
Plumbers' Stoves
Plumbers' Unions
Portable Bell Sets
Portable Coppers
Portable Fire Boxes
Postal Door Handles
Potato Steamers
Pots
Poultry Troughs
"Princess" Stoves
Pulleys
Pulpit Latches
Pumps
Pushes, Electric
Quadrant Stays
"Queen" Stove
Rack Pulleys
Railing Bars
Railings and Gates
Range Taps
Ranges American
,, English
Register Trivets
Restaurant Tables
Ridging, Galvanized
Rim Latches
Rim Locks
Rim Lock Furniture
Romford Stoves
"Rose" Stove
Rose Head Nails
Round Gratings
Rubbish Wheels
S A C Ranges
Saddle Brackets
Sanitary Pans
Sashes, Cast Iron
Sash Fasteners
Sash Handles
Sash Lifts
Sash Lines
Sash Pivots
Sash Weights
Scrapers with Pans
Scrapers for Stone or Driving
Screws
Screw Caps
Screw Pulleys
Scullery Sinks
Seat and Desk Standards
Sheet Lead
Shelf Brackets
Shop Door Latches
Shop Stoves
Shutter Knobs
Shutter Lifts
Sink Pipes
Sink Traps
Sinks, Scullery and Kitchen
Skylight
Skylight Stays
Slating Nails
Smith's Patent Door Spring
Soil Pipe
Solder
Soot Boxes
Soot Doors
"Sopho" Range
Spindle Valves
Square Gratings
Stable Door Latches
Stable Grates and Frames
Stable Gutters
Staircases
Stair Nosings, Iron
,, ,, Brass
Stall Divisions
Stall Sills
Standard Heads
"Stanley" Ranges
Steam Tubes and Fittings
Steppers
Stock Locks
Stop Cocks
Stove Pipes
Strap Handles
Street Gutters
Stubbs and Plates
Suffolk Latches
Supply Cisterns and Covers
Surplice Pins
Sussex Grates
"Sylph" Stove
Switches
Table Standards
Table Tops, Marble
Tassel Hooks
Tile Pegs
Tile Register Stoves
Tile Stove Interiors
Tomb Railings
Tomb Tablets
Tower Bolts
Trembling Bells
Trestle Joints
Triggers
Trio in Una, Patent Kitchener
Trivets
Truck Wheels
Umbrella Stands
Urinals
Vases and Pedestals
Ventilating Gratings
Ventilators
Verandahs
"Victory" Range
Wall Hooks
Wall Plates
Wall Ties
Wardrobe Hooks
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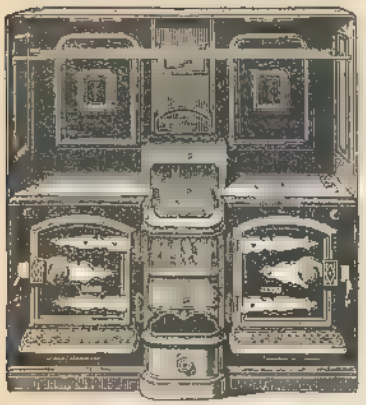

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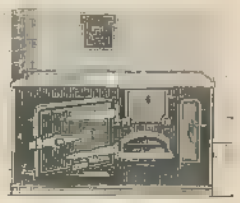

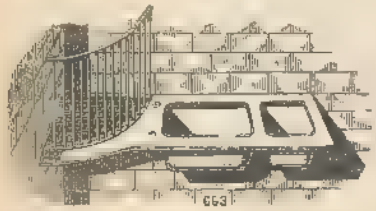

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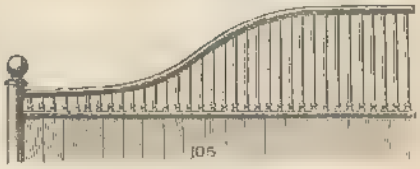
HARNESS ROOM FITTINGS.



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The "Nautilus" Dog-Grate.

PATENT.

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The most artistic, scientific, economic and cleanly of all domestic appliances

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CAN BE FIXED IN ANY FIREPLACE.

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Indestructible. Minimum of Fuel and Attention.

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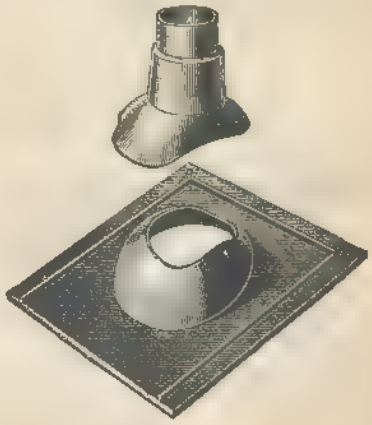

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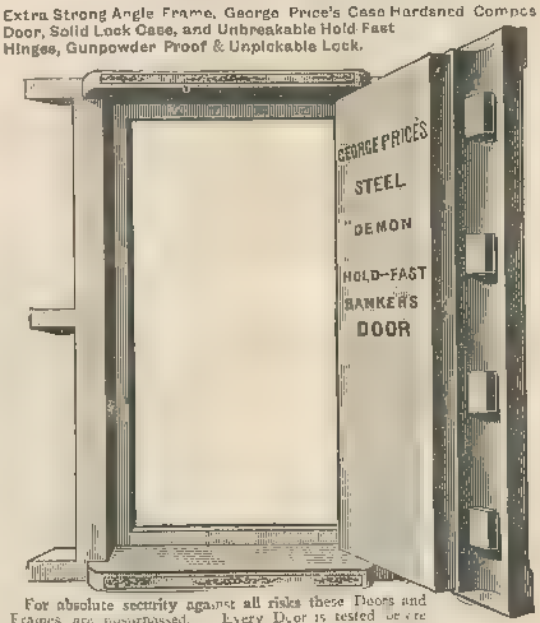

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	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s d	£ s d	£ s. d
5 ft. 9 in × 2 ft. 3 in.	16 0 0	19 0 0	18 0 0	21 0 0	27 0 0	30 0 0	11 0 0
6 ft × 2 ft. 6 in. ..	17 0 0	20 0 0	20 0 0	24 0 0	30 0 0	33 0 0	12 0 0
6 ft × 2 ft 9 in .	18 10 0	22 0 0	22 0 0	26 0 0	32 0 0	35 0 0	12 10 0
6 ft 3 in. × 2 ft 9in	20 0 0	24 0 0	24 0 0	28 0 0	34 0 0	38 0 0	13 0 0
6 ft 3 in. × by 3 ft	21 10 0	25 0 0	26 0 0	30 0 0	36 0 0	40 0 0	14 0 0
6 ft. 6 in × 3 ft. ..	23 0 0	27 0 0	28 0 0	32 0 0	38 0 0	43 0 0	15 0 0

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FIRE & THIEF PROOF

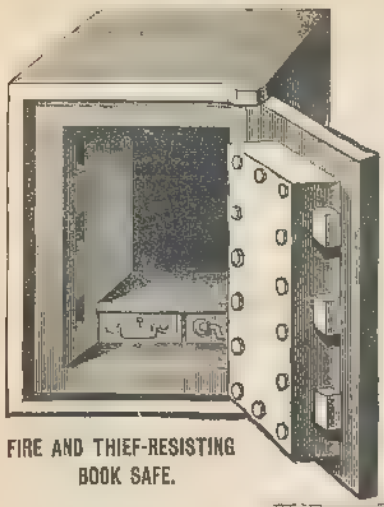
SAFES,

Iron Doors & Frames,

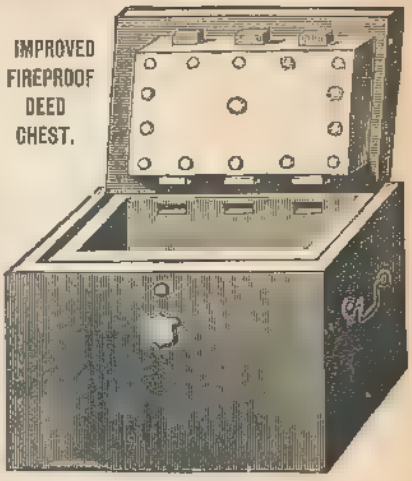
SLIDING DOORS,

STRONG ROOMS.

&c., &c



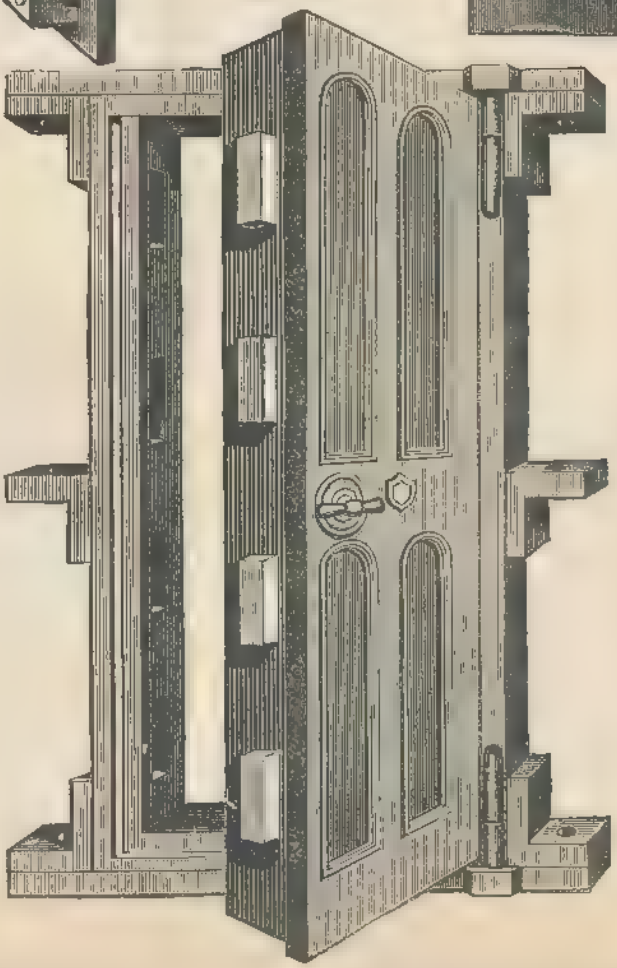
FIRE AND THIEF-RESISTING BOOK SAFE.



IMPROVED FIREPROOF DEED CHEST.

Estimates for Every Description of Iron Doors.

Prize Award Melbourne, 1888.



Estimates for Sliding Doors for Party Walls.

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TUBULAR REVERSIBLE LOCK

BY ROYAL LETTERS

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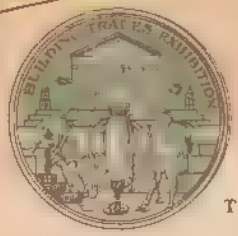
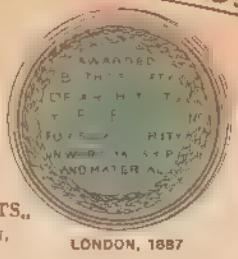


LONDON, 1888

PATENT

Awarded Two Prize Medals by THE SOCIETY OF ARCHITECTS, BUILDERS' EXHIBITIONS, LONDON,



LONDON, 1887

GOLD MEDAL PARIS 1889

FIRST AWARD, MELBOURNE EXHIBITION, 1888.

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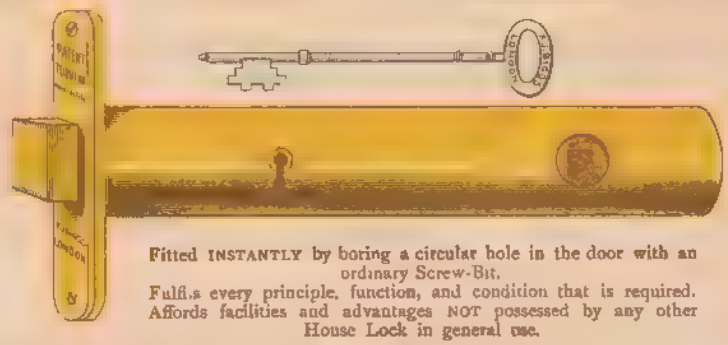
The Patent Tubular Reversible Mortice Lock

50 Per Cent SAVED IN COST

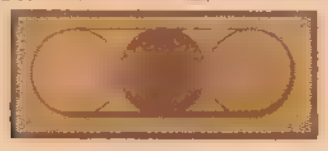


Fitted INSTANTLY by boring a circular hole in the door with an ordinary Screw-Bit.
Fulfils every principle, function, and condition that is required.
Affords facilities and advantages NOT possessed by any other House Lock in general use.

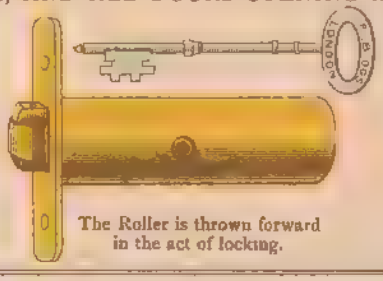
80 Per Cent SAVED IN FITTING

The Patent Tubular Roller Lock

FOR SASH DOORS, DOUBLE DOORS, AND ALL DOORS OPENING AND CLOSING BY PUSH OR PULL



THREE CIRCLES,
made by the same Screw-Bit, produce the exact incision for the insertion of the Fore Plate.



The Roller is thrown forward in the act of locking.

THREE CIRCLES,
made by the same Screw-Bit, produce the exact incision for the insertion of the Striking Plate.

TEMPLATE.
For instantly ascertaining where to make the Key-hole and Spindle-hole through the wood part of the door.

PRICES.

Reversible Mortice Lock.

6 in. × 1 in.	60 -	per doz.
5 in. × ¾ in.	54 -	,,

Roller Lock.

2½ in. × 1 in.	60/-	per doz.
2½ in. × ¾ in.	48/-	,,

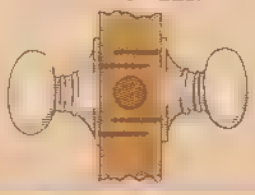
A Screw Bit Guide and Template supplied Gratis with each Box of 6.

Extra Guides or Templates			4d. each
Screw Bits	4/- each.	Braces	2
Screw Drivers	1/- ,,	Gimlets	6

GUIDE.
Temporarily screwed to the door; the open tube part standing out from the door, to ensure the Screw-Bit driving straight in boring out the circular chamber for the Lock's reception.

SECURE AND PERMANENT ATTACHMENT OF THE DOOR HANDLES.

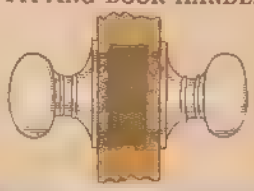
Unattainable in equal perfection by any other form of Lock yet invented.



The only form permitting the use of long screws for fixing the Handles to the door.

PRESENT UNIVERSALLY DEFECTIVE MEANS OF FITTING DOOR HANDLES.

Example shewing the impossibility of using long screws.



The intervention of the body of the Lock renders the use of long screws impossible.

McCAW STEVENSON & ORR LTD. 29 CANNON ST. E.C. & BELFAST 5331.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NOTICE.

Up to this present, 20,000 Locks have been sold, without the assistance of any Travellers, but on reputation only!

Every part of the Lock is Machine made, Interchangeable, and fits accurately into the position designed for it.

1,000 Testimonials from Architects, Builders, Contractors, Ironmongers, Engineers, &c., testify to its superior excellence.

The Originals may be seen on application at the Syndicate's Offices.

Every Lock is tested, proved, and guaranteed.

For Suites of Rooms, Offices, Chambers, Prisons, Cells, &c., Locks can be supplied to a practically unlimited extent, every Lock being different and requiring a separate key, and yet all being able to be locked or unlocked by one master key.

Locks can be had for Asylums, &c. (without handles on the inside), so that they cannot be unlatched from the inside, but so that the Third Warder can unlatch any one of the Locks by key or handle from the outside, and so that the Third Warder may overlock any door, rendering it impossible for the Third Warder to open it, the Second Warder having a separate key for each cell; and so that the First Warder, or any superior official, may carry one key which shall unlock and unlatch every cell in the Asylum.

The Lock also admits of any variations and changes, applicable beyond any Locks yet invented, to every contingency that may be required in connection with large establishments for different purposes, and specifications and prices will always be given upon any requirements being made known to the TUBULAR LOCK SYNDICATE, Ltd., Leadenhall Buildings, London, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address—
"WISHAW, BIRMINGHAM."

ESTABLISHED 1799.

TELEPHONE—
No. 377

WALTER SHAW & CO.,

16 & 17, PARK STREET, BIRMINGHAM.

BUILDERS' IRONMONGERS, IRONFOUNDERS,

Merchants & Manufacturers.

Fig. 1
With Barnsley's Patent
Chain Guides

Fig. 2
Improved Weston's
with Fixed Guides.

ALL DESCRIPTIONS OF

SCAFFOLD CHAINS, BLOCK, CABLE & CRANE CHAINS.

WROUGHT NAILS OF ALL SORTS.

Cut, Patent Pressed, Cast, Malleable Nails; Wire, Zinc & Copper Nails.

BOLTS AND NUTS, COACH SCREWS, RIVETS, &c.

IMPROVED WESTON'S DIFFERENTIAL PULLEY BLOCKS

With Barnsley's Patent Self-Adjusting Roller Chain Guides.

REDUCED PRICES.

FIG. 1, WITH PATENT GUIDES.

Tested to..Tons	¼	½	¾	1	1½	2	3	4
Blocks per set	8/	12/6	14/6	17/6	25/	32/	45/	65/
Bright Chain per ft.	5d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.

FOUR feet of CHAIN required to every foot to be lifted.

FIG. 2, WITHOUT PATENT GUIDES

Tested to..Tons	¼	½	¾	1	1½	2	3	4
Blocks per set	6/	8/6	11/6	13/6	20/-	27/6	36/-	52/-
Bright Chain per ft.	5d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.

DISCOUNT AND TERMS ON APPLICATION.

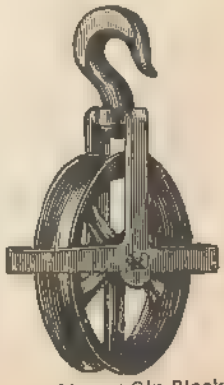
No 1 Snatch.

No. 1a, Snatch

No. 3, Block.

No 4, Block.

No 5, Block.



No 5 Strong Gin Block

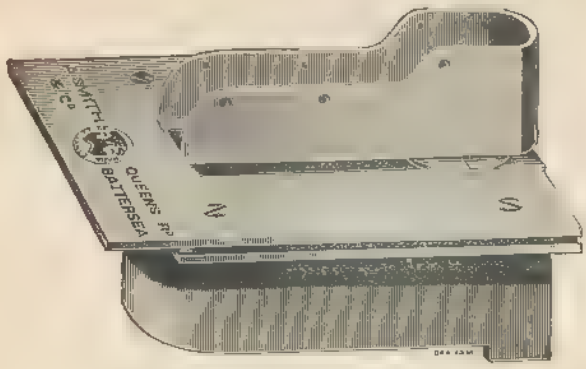
PRICES ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

ARCHIBALD SMITH & STEVENS,

Telegraphic Address "Hydraulic, London"

QUEEN'S ROAD, BATTERSEA, S.W.



PATENT ADJUSTABLE "JANUS" DOOR SPRINGS.

THIS is the original and well-known "SMITH'S" SPRING. To prevent the use of cheap imitations, Architects are respectfully desired to specify Name and Address in full.

SMITH'S PATENT "MODEL" DOOR SPRING.

THE "MODEL" SPRING is of the same type as our "Janus," but smaller in size, and suitable for a lower class of building It possesses the same strength as the "Janus" Spring

PRICES OF "JANUS" DOOR SPRINGS.

No.	Size.	Price with Brass Trough Shoe.	Price with Iron Strap Shoe.	Extra for Outer Box.	Lubricant and Screws.
1	Y	35/0	33/0	10/0	1/6
2	Z	63/0	60/0	16/0	4/6

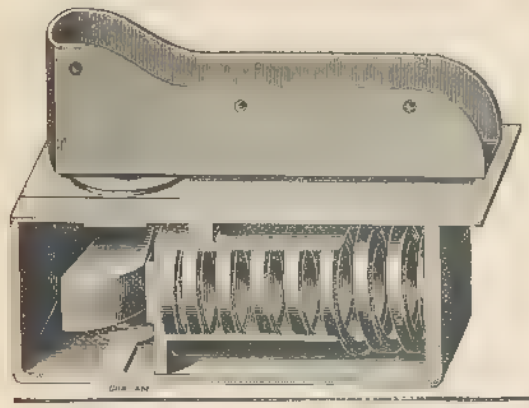
No. 1 Spring is suitable for Doors up to 2 ft. 9 in. wide.
No. 2 Spring is suitable for larger Doors.

Outer Boxes are recommended when Springs are let into Tile, Mosaic, Cement, or similar Floors The Spring may then be removed for repairs without cutting up the Floor.

PRICES OF "MODEL" DOOR SPRING.

Size.	Maximum Width of Door.	Price with Brass Trough Shoe	Price with Iron Strap Shoe.	Extra for Outer Box.
X	30 inches	22/0	21/0	4/0
Y	36 "	25/0	23/6	4/0
Z	42 "	28/0	26/0	4/0

Sympathetic Springs per pair, X size with Brass Shoes 75/0
Lubricant and Screws 1/6 per Spring

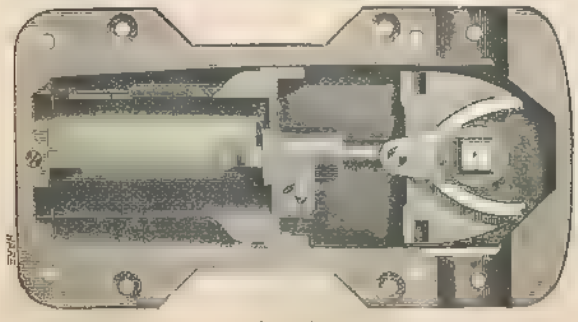


PATENT "BATTERSEA" DOOR SPRING.

A HIGH-CLASS London-made Spring at the lowest price yet offered. It is the simplest made, having only **Two Moving Parts.** *Samples on Trial.*

PRICES.

Size of Spring.	Maximum Width of Door	Price with Brass Trough Shoe.	Price with Iron Strap Shoe.	Extra for Outer Box.
X	30 inches	18/0	17/0	4/0
Y	36 "	22/0	20/6	4/0
Z	42 "	24/0	22/0	4/0
Z 2	Larger or Exposed Doors	27/0	25/0	4/0



PRIZE MEDALS AWARDED AT
International Exhibition, London, 1884.
International Exhibition, Antwerp, 1885.

STEVENS' & MAJOR'S

PATENT HYDRAULIC SPRING AND CHECK.

THIS CHECK SPRING was the *First* Spring placed on the market, which combined the three functions of Spring, Hinge, and Check; and in spite of the numerous imitations which immediately followed, it maintains its foremost position

It is equally applicable to Double or Single Acting Doors. Internal or External

SIZES AND PRICES.

For Internal Doors up to	Size.	With Brass Shoe.	With Iron Strap Shoe, Double Action only.	Extra for Outer Box.
24 inches wide	X0	1 6 0	1 4 0	4 6
30 " "	X	1 7 0	1 4 6	4 6
36 " "	Y	1 14 0	1 11 0	6 0
42 " "	Z	2 3 0	1 19 0	7 6
48 " "	Z2	2 10 0	2 6 0	7 6

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

SMITH & TURNER,

BARTHOLOMEW CLOSE, LONDON, E.C.,

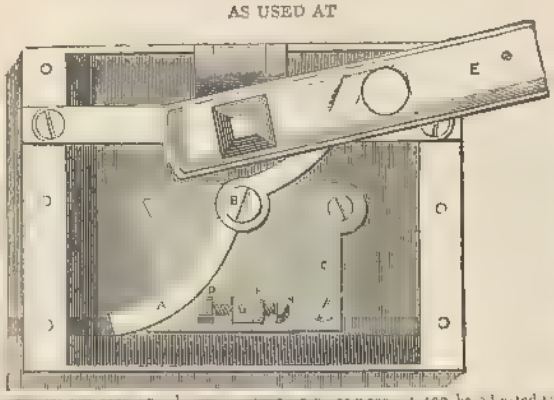
INVENTORS AND MAKERS OF THE FIRST DOOR SPRING USED.

International Health Exhibition, London, 1884—Silver Medal Highest Award, ONLY MEDAL,
International Exhibition, Edinburgh, 1886.

Ben Turner's Patent Adjustable Regulating Door Spring,

AS USED AT

Buckingham Palace
St. James's Palace
Kensington Palace
Marlborough House
Clarence House
Cumberland Lodge
H. M. Office of Woods, &c
Natural History Museum
South Kensington Museum
Home and Colonial Offices
Foreign Office
War Office
Indian Office
Royal Courts of Justice
Somerset House
National Gallery
Custom House
Royal Naval College
St. Paul's Cathedral
St. Stephen's Club
Carlton Club
Constitutional Club
City Carlton Club
City Liberal Club
Army and Navy Club
Raleigh Club

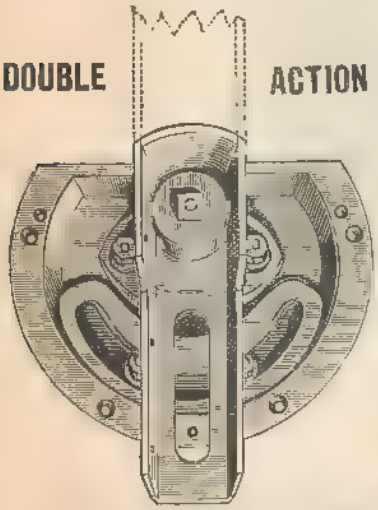


East and West India Docks and Offices
The Baltic, Gresham, Equitable, Alliance, Atlas, and Sun
Gas, Light and Coke Company Offices
City Livery Halls
Guildhall and Library
Technical College
Royal Exchange
Corn Exchange
St. Bartholomew's Hospital
Fever Hospital
Children's Hospital
Hospital, Swanley
Birkbeck Institute
Bank of England
Drummond's Bank
Child's Bank
National Provincial Bank of England
London and County Bank
City Bank
Baring's Bank
Grand Hotel
Hotel Metropole
First Avenue Hotel
Holborn Restaurant
Paul or Music Hall

Which describes considerable [illegible] strong or weak [illegible] can be adjusted to any centre, and the whole of the inside taken out without changing the door. [illegible] door is closed and gradually weakens as it opens.

ALSO BEN TURNER'S NEW PATENTS.

DOUBLE ACTION



THE SILENT B.T.

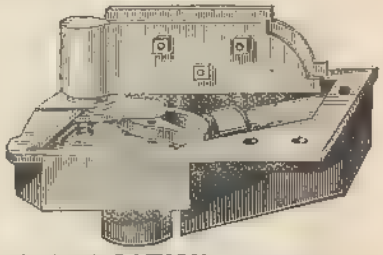
TRADE MARK.

[illegible] Double-action Door FOR PREVENTION OF SLAMMING with Hydraulic and atmospheric CHECKS,

They can be adjusted so as to hold the door at any angle making them particularly suitable for Public House Doors, thereby doing away with leather straps, lance-wood checks &c. Will describe a circle in opening.

[illegible] are also specially adapted for use in [illegible], Hospitals and Private Houses and although low in Price, are the most perfect silent springs.

FROM 21s EACH.



SINGLE ACTION (SPRING & CHECK.

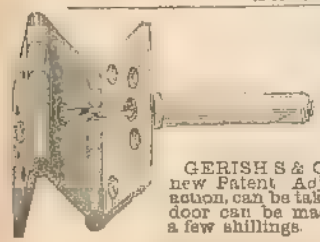
This Spring will hold the door firmly against the wind as from its peculiar construction there is about six times the pressure of the Spring when door is in closed position. It weakens gradually as it opens

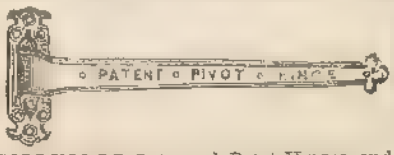
SMITH'S IMPROVED WATER BARS.

For rendering casements absolutely weather-tight. Made in every conceivable form, to suit any position.

Improved Adjustable Slam Spring *Improved Ball Door Holder.* *Improved Roller Door Porter.*

Brass and Iron, Espagnolette Bolts, Coil, Grip, Spiral, Catch, every description of Springs, Centres, Hinges, Buffers, Casement Fastenings and Stays, &c., to H. M. Office of Works, H. M. War Office Admiralty. ESTABLISHED NEARLY A CENTURY





All sizes up to 7 ft. 6 ins.

TONS IN STOCK.

GERISH'S & COLLINGE'S Gate and Pivot Hinges, and new Patent Adjustable Spring Hinge, single and double action, can be taken to pieces and fixed in a few minutes. A door can be made to swing perfectly both or one way for a few shillings.

S. GERISH & COMPANY, Buttesland Street, East Road, City Road, N.

SEND FOR LISTS. THE BEST OF WORK AT THE LOWEST PRICE.

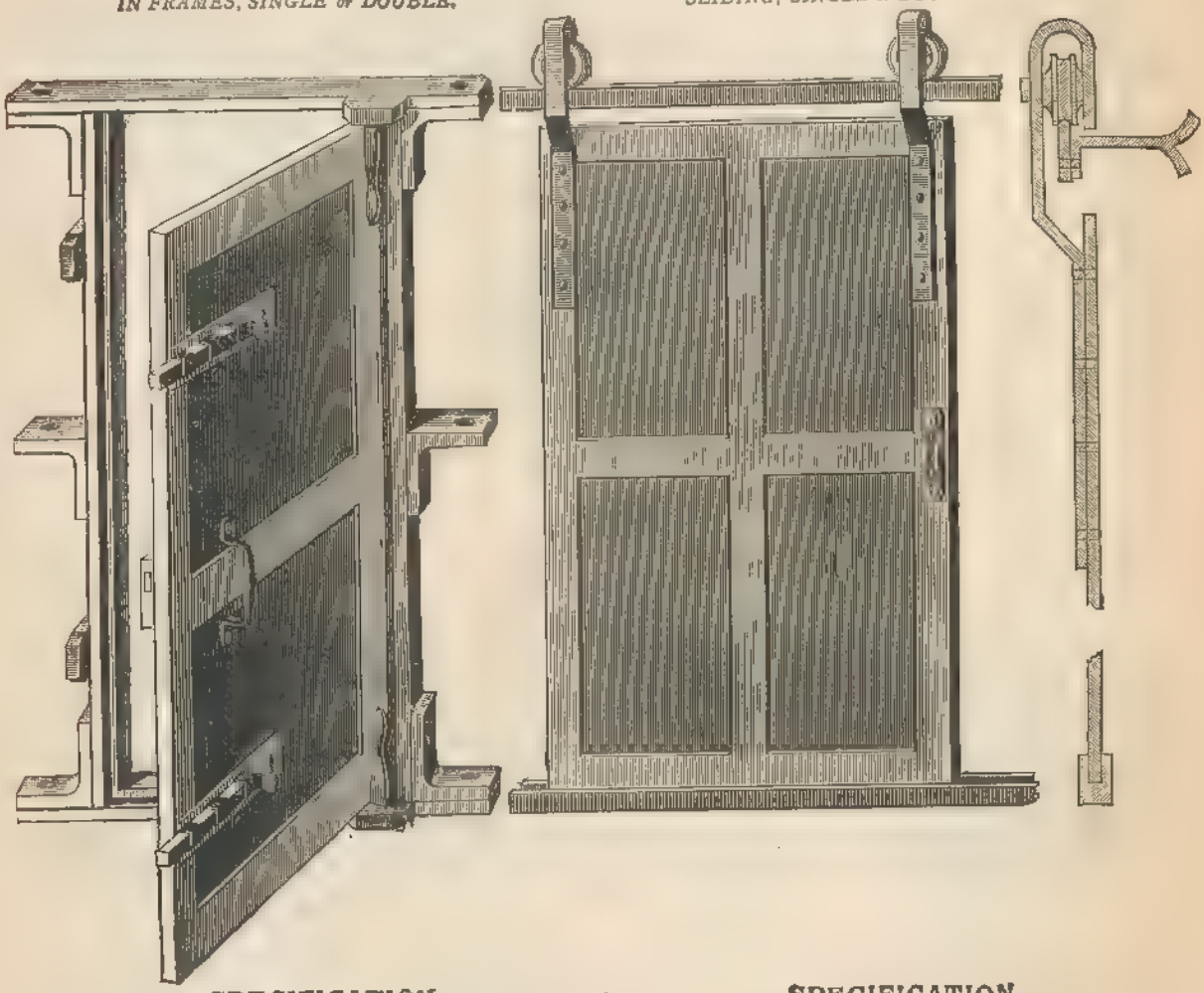
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WHITFIELD'S

WROUGHT IRON PARTY WALL OR INSURANCE DOORS,

MADE IN ACCORDANCE WITH THE METROPOLITAN BUILDING ACT

IN FRAMES, SINGLE or DOUBLE. *SLIDING, SINGLE or DOUBLE*



SPECIFICATION.

¼in. Plate panelled with ¼in Stiles and Rails, and hung with Wrought Iron Centres into Frames 2½in by ½in., or 2½in by ⅝in., according to size of Door. Secured with 12in. Tower Bolts and Lever Dead Lock.

SPECIFICATION.

¼in Plates with ¼in Stiles and Rails hung with strong Wrought Iron Straps and 6in. Pulleys, on to 3in. by ⅝in. round edge, Running Bar, Groove, &c., complete.

Prices of these Doors sent on receipt of sizes of openings.

F. WHITFIELD AND CO.,

MANUFACTURERS OF WROUGHT IRON SAFES AND DOORS,

OXFORD STREET, BIRMINGHAM.

London Office: 66, HOLBORN VIADUCT, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

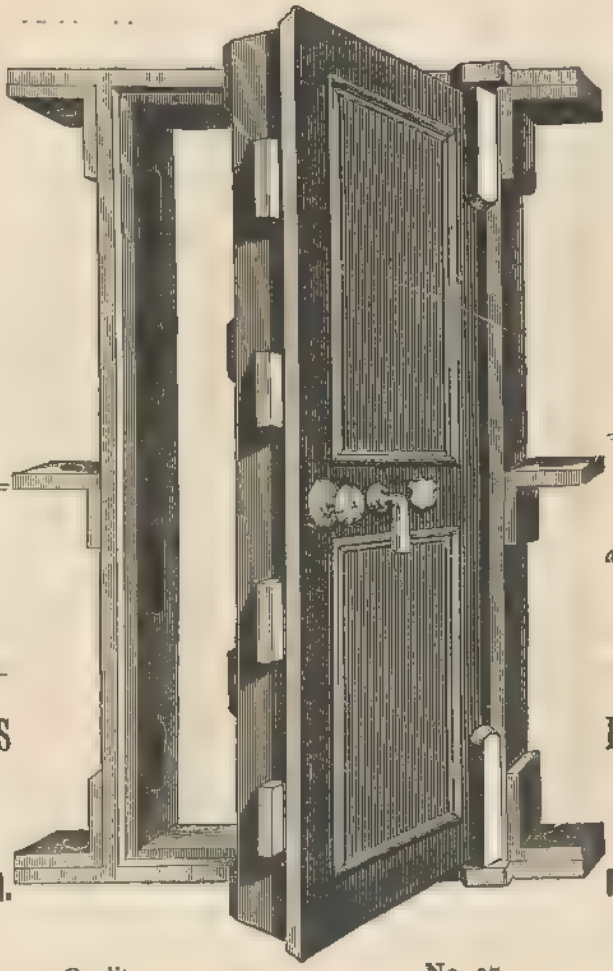
WHITFIELD'S
FIRE RESISTING IRON DOORS.

SIZES (of Door Plates.)				
Ft.	In.		Ft.	In.
6	0	by	2	0
6	0	„	2	6
6	0	„	3	0
6	6	„	2	9

Other Sizes at Proportionate Prices.

PRICES		
£	s.	d.
12	15	0
14	0	0
15	15	0
15	15	0

Discounts and Terms to Builders and Architects on Application.



PARTY WALL DOORS

FOR WAREHOUSES

FROM £3 10s. EACH.

FIRE AND BURGLAR RESISTING SAFES

FROM £5 5s. EACH.

Quality No. 37.

SPECIFICATION. Door Plates ⅛in (solid hung with strong WROUGHT IRON CENTRES into 3 in by ½ in Frame with 2¼ in by ⅝ in Rebate Bar, 3¼ in FILLED Lock-case secured to Door Plate with Pins and Straps; Brass Lever Handle, throwing Four Bolts at Front, Three Back Dogs

Bolts secured by WHITFIELD'S PATENT seven-slide Lock, or Patent Solid Lever Block Lock (two keys), protected by Hardened Steel Plates.

F. WHITFIELD AND CO.,

MANUFACTURERS OF WROUGHT IRON SAFES AND DOORS,

OXFORD STREET, BIRMINGHAM.

London Office: 66, HOLBORN VIADUCT, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WHITFIELD'S

PATENT "SICKER" DOOR.

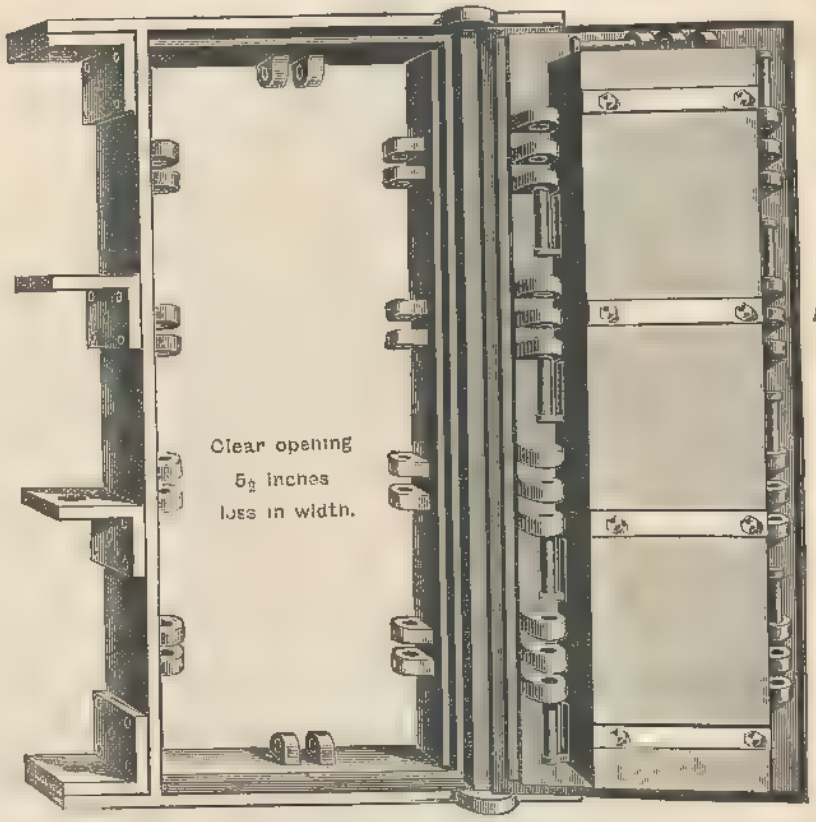
For Bankers and Jewellers.

PRIZE MEDALS.

LONDON, 1851.

PARIS, 1878.

SYDNEY, 1879.



PRIZE MEDALS.

MELBOURNE 1880.

ADELAIDE, 1881.

CALCUTTA, 1884.

SPECIFICATION.

Door Plate 1¾ in., made of two ½ in iron plates, intersected with ¼ in hardened drill-proof steel plate, hung with strong wrought iron centres, into 6 in by ⅝ in frame with 5¾ in by ⅝ in rebate. Fitted with ten steel "Sicker" bolts four each, back and front and one each up and down, shooting all round door. Lockcase covering boltwork, filled with best fire-resisting composition, and bolts secured by one twelve and one nine slide Whitfield's Patent unpickable gunpowder proof lock (two keys).

Size of Door Plate. Ft. In.	Ft. In.	Prices. £	s.	d.
6 0 ×	2 6	57	10	0
6 0 ×	2 9	61	5	0
6 0 ×	3 0	65	0	0
6 6 ×	3 0	68	15	0

ESTIMATES GIVEN FOR ALL SIZES OF DOORS AND FRAMES IN ANY QUALITY.

Wrought Iron Ventilating Gates and Frames for Bankers' Muniment Rooms, &c., from £10 to £20, according to size.

F. WHITFIELD AND CO.,

MANUFACTURERS OF WROUGHT IRON SAFES AND DOORS,

OXFORD STREET, BIRMINGHAM.

London Office: 66, HOLBORN VIADUCT, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

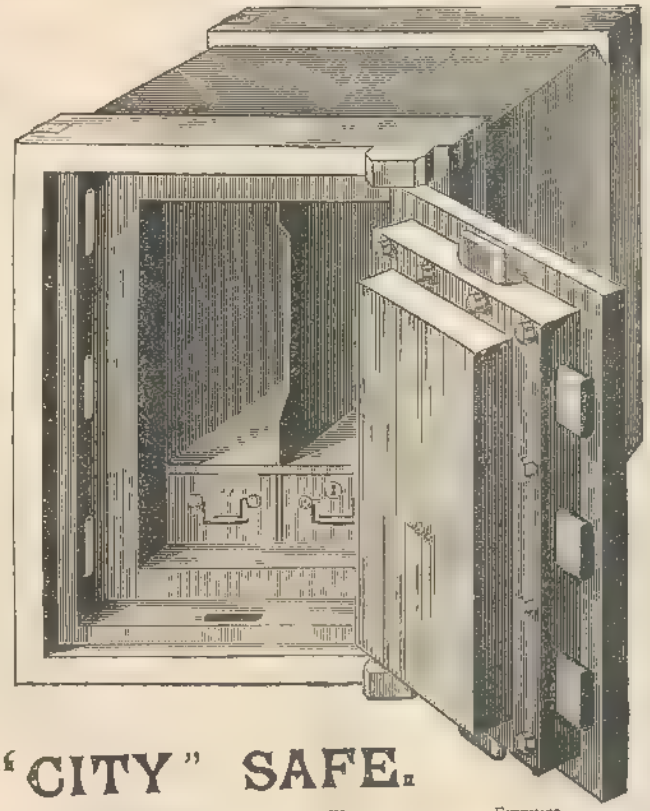
WHITFIELD'S

WROUGHT-IRON FIRE AND THIEF-RESISTING SAFE.

SIX PRIZE MEDALS.

London, 1851. Paris, 1878. Sydney, 1879. Melbourne, 1880. Adelaide, 1881. Calcutta, 1884.

Bodies made of best ¼ in. Boiler Plate, put together with strong Angle Iron, and strengthened with massive Outside Bands, Chambered and filled with Patent Evaporating Composition. Doors, ⅝ in. Solid, hung with centres.



Strong Bolts thrown back and front, and top and bottom, by Brass Handle, into the rebate bars of safe, and secured with Whitfield's 8-lever Solid Block Lock (Two keys), protected by Hardened Steel Plate.

THE "CITY" SAFE.

Outside Measures. Over Bands. ins. High.	ins. Wide.	ins. Deep.		Inside Measures. Above Drawers. ins. High.	ins. Wide.	ins. Deep.	Approx. Weight. Cwts.	Qts.	lbs.	Fittings.	Price. With Fittings £	s.	d.	Price. Without Fittings. £	s.	d.
21	18	18		12 (Above drawer) / 16½ (On near side)	5	10	4	0	0	1 Drawer half across and Partition	14	0	0	13	12	0
25	20	20		14	12	12	5	0	0	2 Drawers & Partition	15	10		14	18	0
28	22	22		16	14	14	5	3	0	2 Drawers & Partition	17	0	0	16	8	0
30	24	22		17½	16	14	6	2	0	2 Drawers & Partition	19	0	0	18	8	0
36	20	24	Above Drawers / Above Shelf	19½ / 4	18 / 18	16 / 16	8	0	0	2 Drawers, Partition, and Shelf	22	0	0	21	8	0
42	28	25	Above Drawers / Above Shelf	23½ / 6	20 / 20	18 / 18	10	1	0	2 Drawers, Partition, and Shelf	27	5	0	26	10	0
48	30	26	Above Drawers / Above Shelf	22½ / 12	22 / 22	18 / 18	12	0	0	2 Drawers, Partition, and Shelf	31	10	0	30	15	0
54	30	26	Above Drawers / Below Drawers	20 / 20	22 / 23	18 / 18	13	2	0	2 Drawers in centre, Partition above & below	35	0	0	34	3	0

F. WHITFIELD AND CO.,

MANUFACTURERS OF WROUGHT IRON SAFES AND DOORS,

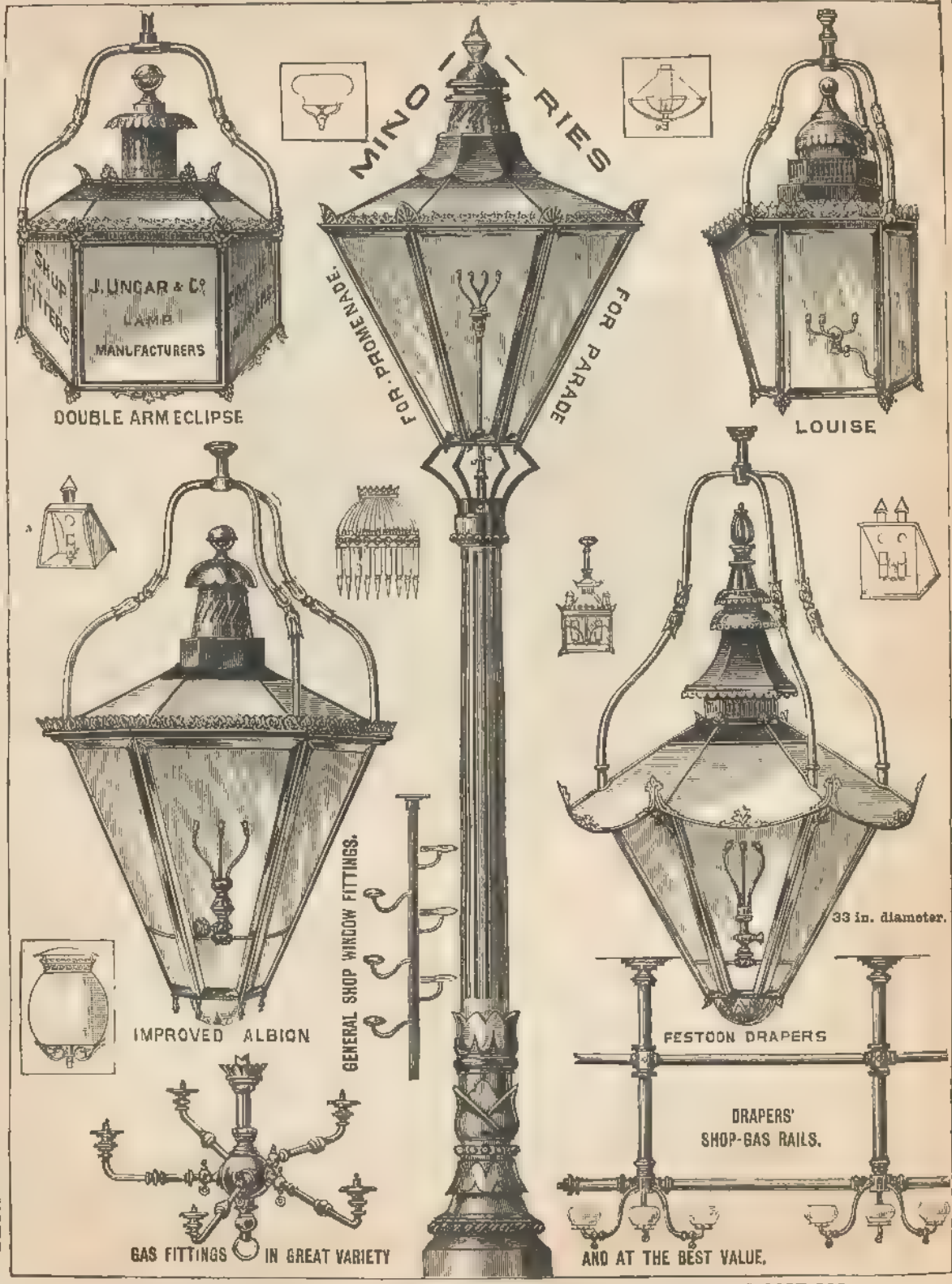
OXFORD STREET, BIRMINGHAM.

London Office: 66, HOLBORN VIADUCT, LONDON, E.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

UNGAR & CO.'S NEW DESIGNS OF OUTSIDE LAMPS FOR SEASONS 1889—90.

GENERAL GAS & ELECTRIC LIGHT FITTERS. ELECTRIC & PNEUMATIC BELLS, SPEAKING TUBES, &c.



SPECIAL & GENERAL GAS-FITTINGS FOR ANY TRADE. DRESS RAILS & WINDOW FITTINGS KEPT IN STOCK.

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of

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Free to Customers.

NEW DESIGNS IN

Chandeliers,

Hall Lamps,

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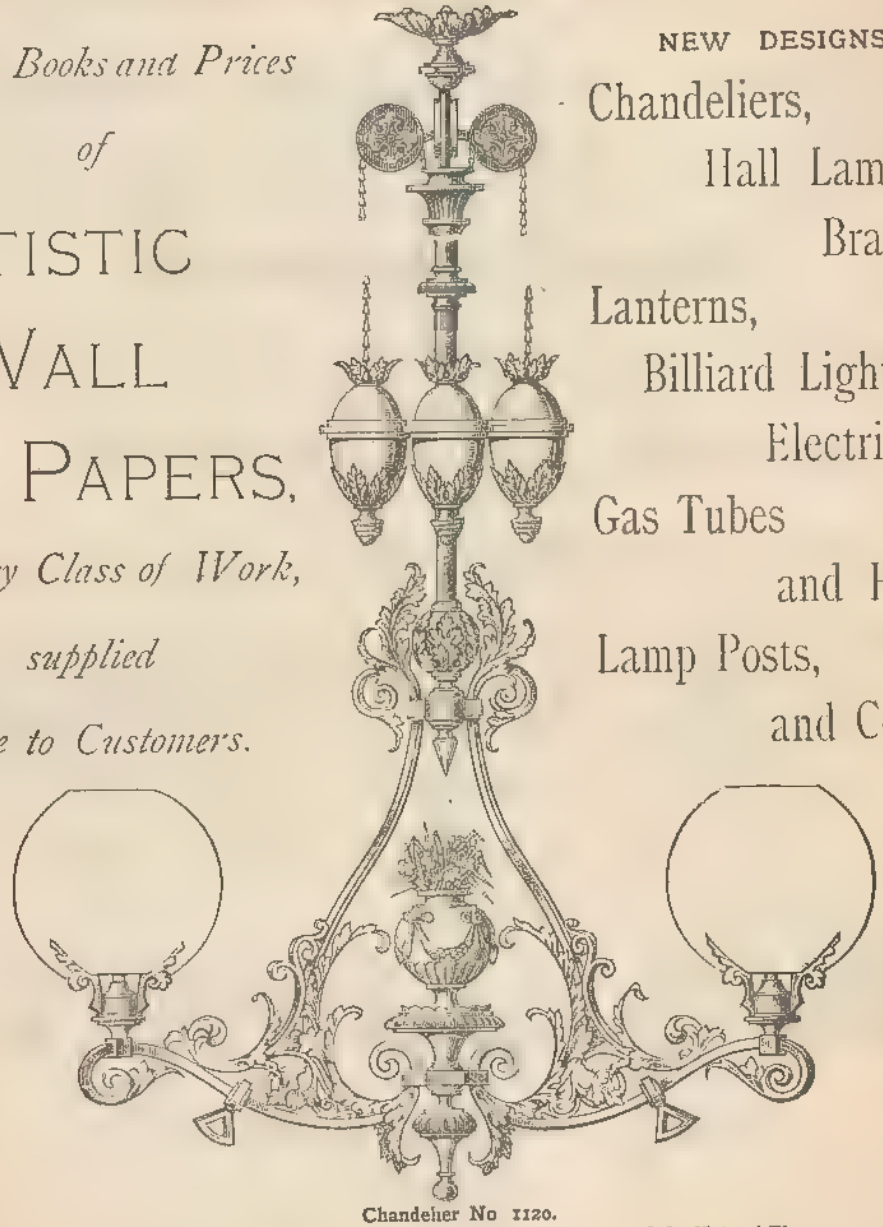

Chandelier No 1120.

Polished Brass and Copper combined ; Porcelain Vase can be used for Natural Flowers.

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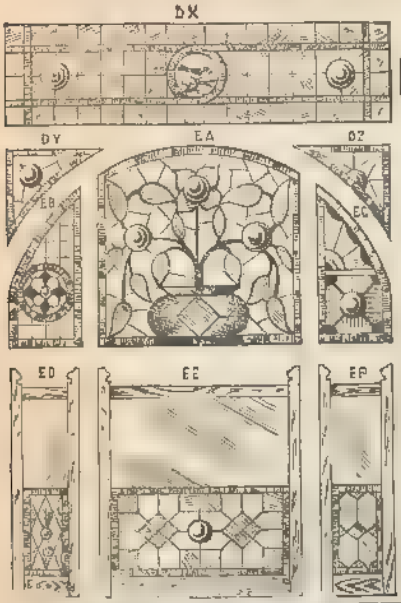

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HALLS, PORCHES,
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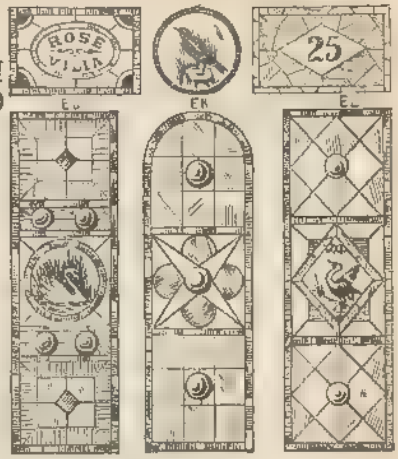

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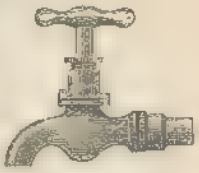

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LAVATORY BASINS, STANDS AND FITTINGS.

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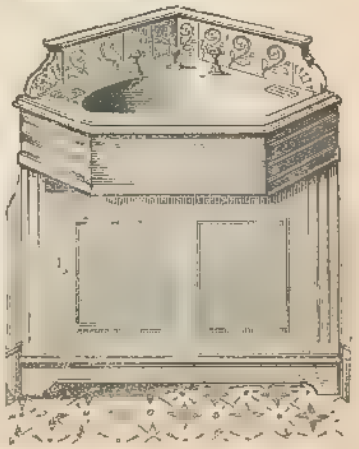

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YOUNG & MARTEN, Kitchen Range and Stove Manufacturers,

Caledonian Works, STRATFORD, London, E.

OUR NEW IMPROVED

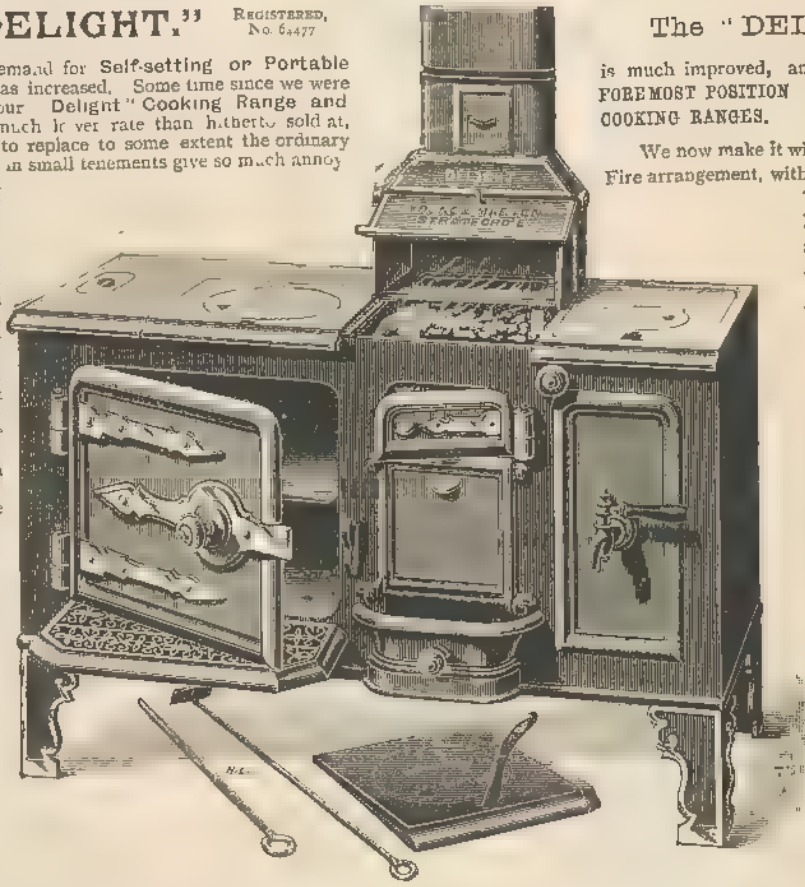
PORTABLE AND SELF-SETTING COOKING RANGE.

THE "DELIGHT." REGISTERED, No. 64477

Steadily the demand for **Self-setting or Portable Cooking Ranges** has increased. Some time since we were able to introduce our "Delight" **Cooking Range and Smoke Cure** at a much lower rate than hitherto sold at, our chief aim being to replace to some extent the ordinary *Kitchen Range*, which in small tenements give so much annoyance to tenant and landlord by their *smoky proclivities*. The "Delight" being a thorough **Smoke preventer, a Fuel Saver, an Efficient Cooker, of elegant appearance**, and very little more costly than the ordinary Range, at once became a very great favourite. We venture to hope for in its new form a still greater popularity for above qualities.

COMPACT AND PERFECT.

STRONG AND ORNAMENTAL.



The "DELIGHT"

is much improved, and still holds the FOREMOST POSITION of all PORTABLE COOKING RANGES.

We now make it with Open and Close Fire arrangement, without extra charge. This lessens the heat in kitchen, and still further reduces consumption of fuel.

THE "DELIGHT"

is truly what its name implies—a "Delight" in every household where used, and the best commendation to a trial is that over

100,000

are now in use, and

EVERY ONE A PERFECT SUCCESS.

	Sizes made	24	26	28	30	32	36	38 in. wide.
	Oven inside	10	12	12	14	14	14	16 "
No. 1294.—OVEN AND SHAM	.. ..	37/6	40/-	45/-	50/-	52/6	55/-	65/- each.
	Sizes made..	..	..	.. 28	30	32	36	42 in. wide.
	Oven inside	..	..	.. 10	12	12	14	16 "
No. 1295.—OVEN & BOILER, WITH TAP, as drawn		..	..	52/6	55/-	57/6	65/-	85/- each.

Smoke Pipe and Smoke Plate for all sizes 4/- per set.

The following is one of many Testimonials we have received:—Mr GOOD writes, "Your 'DELIGHT RANGE' in my opinion is the BEST, the CHEAPEST, and most USEFUL RANGE in the MARKET. I have fixed in and round London *some scores*, and have never yet had a complaint against them, but have on many occasions heard from the users the greatest praise in their favour, they are *sure cures for the smoky chimney*, they are *simple in working*, and allow of the utensils and the hearth to be kept bright and clean with the *smallest amount of labour*. I have fixed these Ranges in Educational Establishments where 20 *to* 30 *sit down to dine*. Your 42 inch has been the only means of cooking, and I am told by the users that they still have room to spare. I advise my customers to have the Open and Close Fire as they are great economisers of fuel, and provide the means for better ventilation."

Free Delivery and Trade Terms quoted upon Receipt of Trade Card.

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KITCHEN RANGE AND STOVE MANUFACTURERS,

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THE "VICTORIAN" OPEN AND CLOSE-FIRE KITCHENER,

WITH TILED COVINGS.

Made with **Two Large Wrought Iron Ovens**, ventilated, one for Roasting and the other for Baking: fitted with Bright Dish Rests under Ovens, Draw-out Fret, Bright Hinges, Nosings, Plate Rack, Ashes Pan, Fall Bar to Fire, Open or Close Hood with Ventilator above, complete with Tiled Covings.

THE OPEN FIRE ARRANGEMENT LESSENS THE HEAT IN KITCHEN.

THE VENTILATOR ABOVE HOOD CARRIES OFF THE FUMES OF COOKING.

28in to Hot Plate, 18in deep, with 26in Covings to all sizes

Sizes	42	45	48	51	54	60-ins. wide
Baker Inside	11½	11¾	12½	14½	14½	18½ ,,
Roaster Inside	11½	13¼	14½	16½	18½	18½ ,,
Fire	8	9	10	10	10	12
No. 767, Double Ovens, Open and Close Fire, with Tiled Covings as drawn	152/6	165/-	175/-	190/-	200/-	220/- each
No. 836, Arched Flue Bath Boiler to fit	22/6	25/-	25/-	25/-	30/-	30/- ,
No. 767, D. O., O. & C. F. Kitchener and No. 836 Bath Boiler complete ..	175/-	190/-	200/-	215/-	230/-	250/- per set

Also made with **Close Fire: Iron Covings: One Oven**: or One Oven and Side Boiler. Sizes and full details as per "Victorian List." The following is one of many Testimonials we have received.—

CAPTAIN SCRIVEN, R.N. writes: "I have much pleasure in stating that the Victorian Kitchener supplied by you some time back for the use of the Ship's Infirmary has given entire satisfaction. It is most simple and effective in its action, and is far beyond any other Kitchener of the same size and cost that I have ever been acquainted with. I can unreservedly recommend it either for the Cottage or the Villa. I am pleased to be able to bear this testimony for a very excellent article."

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MERCHANTS AND MANUFACTURERS,

Caledonian Works, STRATFORD, London, E.

Please send us TRADE CARD with application to have your name and address placed upon our Register of PURCHA[illegible] CASH, and we undertake to send you, post-free, the next issue of our ILLUSTRATED TARIFF OF PRICES The [illegible] sue has been accurately described

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102 [illegible]	BUILDERS IRONMONGERY [illegible] CHIMNEY PIECES
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	GAS WALLING [illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible] STAFFORDSHIRE [illegible]
CALEDONIAN WHARF, STRATFORD MARKET	[illegible] MENT, BRICK [illegible]

BRANCHES

WALTHAMSTOW, N.E.; LEYTONSTONE, E.; and CALEDONIAN WHARF, STRATFORD MARKET, E.

Head Office: Caledonian Works, STRATFORD, London, E., to which all communications should be addressed.

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THE

TEALE FIRE PLACE COMPANY,

KELSALL STREET WORKS, LEEDS.

SOLE MANUFACTURERS OF THE

"Lionel Teale Front Hob Fire Place."

ALSO MAKERS OF OTHER FIRE PLACES,

Absolutely and Strictly on the Principles Advocated by

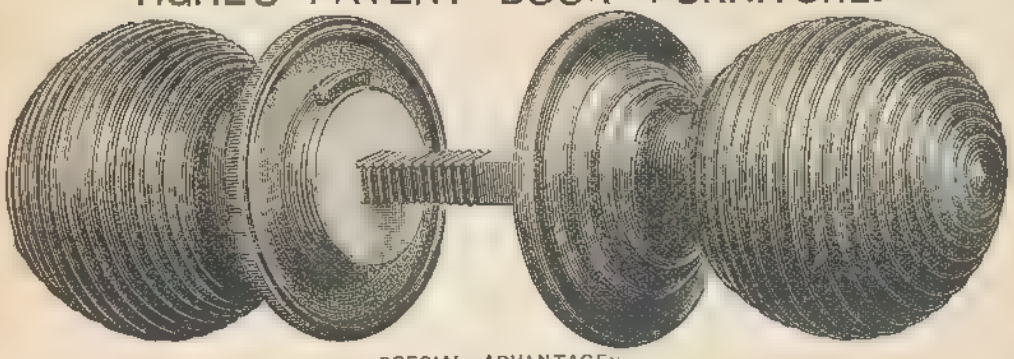
T. PRIDGIN TEALE, Esq., M.A., F.R.C.S., F.R.S.

CHARLES TIGHE & SONS,

42, LOMBARD STREET, LONDON, E.C.

TIGHE'S PATENT DOOR FURNITURE.

Architects' own Designs made to Order.



Prize Medal, Inventions Exhibition.

SPECIAL ADVANTAGES.

These Handles cannot come off or work loose, are complete in two parts, require neither tools or screws for fixing, and are absolutely and permanently secure when fixed.

Briefly, this is a great improvement on ordinary door furniture. It is a thoroughly secure handle—that is to say, it is not dependent for its hold on the door by screws, which usually enter the mortise part where the wood is not sufficiently thick to bear the strain, but the knob is fixed to the spindle merely, with the utmost security and ease. Consequently, it is a handle that can be fixed without tools. An additional recommendation is that the quality of the handle is of the best description and has met with great favour amongst architects. *The Architect, April 2nd 1886.*

No.	WOOD.	
10	Plain Oak ..	3 8
11	" Ebony	3.6
12	" Cocus ..	4 -
21	"Queen Anne" Reeded Ebony	5 3
22.	" " Cocus	5/6

No.	BRASS.	1½	2	2½	2¾
41	Plain Brass Rim	2 6,	2 9,	3/-	
42	" Mortise	2 9,	3 ,	3 6	
31	"Queen Anne" Reeded Brass	5 3	6 ,	6 9,	7 6
35	Heavy Brass Reeded Sides & Raised Top				5 6
53.	Massive Fluted Brass				10/6
54.	Oval Brass, Line Engraved Side ..				7/-

No.	CHINA	
0	Plain White China	2 6
1	" Black	2 9
2	" Ebony	2 9
3	White [illegible], Two Lines	3 6
4.	Black "	3/9

All with Brass Roses. Various other Patterns. Finger Plates to match all.

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NOTES REFERRING TO GOODS IN THIS SECTION

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THE

COMPLETE CATALOGUE.

Section I.

MASONRY, MARBLE, SCULPTURE, &c.

FIRMS REPRESENTED IN THIS SECTION.

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I—MASONRY, MARBLE, SCULPTURE, ETC.

NOTES REFERRING TO GOODS IN THIS SECTION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

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SCULPTORS AND MASONS.

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LONDON - 17, NEWMAN STREET, W.

Telephone, No 3763

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MARBLE MOSAIC PAVEMENTS,

Enamel & Marble Mosaic Mural Decorations,

Marble Staircases and Balustrades,

MARBLE & ALABASTER DADOS & WALL LININGS,

MARBLE PAVEMENTS.

Marble Chimney Pieces, Fenders & Hearths.

Messrs. BURKE & CO. were the Contractors for Marble and Marble Mosaic Work at the following Public Buildings, viz.:—

THE GOLDSMITHS' HALL.
THE JUNIOR CARLTON CLUB.
THE CONSTITUTIONAL CLUB.
THE BADMINTON CLUB
THE HOLBORN RESTAURANT.
THE HOTEL METROPOLE
THE GRAND HOTEL.
THE FIRST AVENUE HOTEL
CHESTER CATHEDRAL
CORK CATHEDRAL.
THE ROYAL MILITARY CHAPEL, Wellington Barracks
ST. MARYLEBONE CHURCH
THE NEW CAMBRIDGE CIRCUS THEATRE

And for the Marble Mosaic Floors at—

NATURAL HISTORY MUSEUM, Kensington
NEW TOWN HALL, Manchester.
THE BRITISH MUSEUM
MUSEUM OF SCIENCE AND ART, Edinburgh
BANK OF ENGLAND, FLEET STREET BRANCH
NATIONAL GALLERY
ROYAL INSTITUTE OF BRITISH ARCHITECTS
THE CARLTON CLUB.
ST. STEPHEN'S CHURCH, WALBROOK, E.C
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ITALIAN MARBLE MOSAIC FLOORS.

Manufactured by

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JOS. F. EBNER,

8 GOLD MEDALS AND HIGHEST AWARDS.

150, OLD STREET, ST. LUKE'S, LONDON, E.C.

ENAMEL MOSAIC FOR MURAL DECORATIONS.

IMPROVED MARBLE TERRAZZO PAVEMENTS.

DESIGNS AND ESTIMATES ON APPLICATION.

DESIGNS AND ESTIMATES ON APPLICATION.

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THE BUTCHERS' HALL.
THE BAKERS HALL.
HUMPHREYS' HALL, KNIGHTSBRIDGE.
CITY OF LONDON SCHOOLS.
KENSINGTON TOWN HALL.
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MAYFAIR CHAMBERS, W
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PICCADILLY RESTAURANT
CENTRAL STATION HOTEL, GLASGOW
RED LION HOTEL, CARLISLE.

CONVENT, NORTHAMPTON. MONASTERY, WADHURST CONVENT, ROEHAMPTON AND FOR H M EMPRESS EUGENIE, HIS GRACE THE DUKE OF RUTLAND, THE EARL OF DYSART, EARL OF DENBEIGH, EARL BEAUCHAMP, RIGHT HON J. LOWTHER, SIR JAMES DUKE, BART, J. CORBETT, M.P, COL J. HOZIER, &c., &c.

FOR EBNER'S PARQUETRY AND WOOD FLOORS, SEE PAGE 118.

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ANCASTER STONE COMPANY,

ANCASTER, GRANTHAM, LINCOLNSHIRE.

The Sole Proprietors (C. & H. KIRK) continue to supply Stone of the same fine quality as heretofore from their Old Quarries.

OFFICES: JERMYN STREET, SLEAFORD.

PETHICK BROS.,

Granite Merchants,

NORLEY YARD, PLYMOUTH,

Are now in a position to supply from the Dartmoor Granite Quarries,

Building Stones, Clean Broken Stone for Concrete, Gravel, Blue Elvin Macadam, Setts' Kerb, or any kind of Granite Work, delivered at any Railway Station or Port at Reasonable Prices.

Telegraphic Address—"STONECLEVE, PORTLAND."

JOHN PEARCE,

Portland Stone Merchant and Quarry Owner,

STONECLEVE, PORTLAND,

Can supply Stone of best quality for Building Purposes, and of the largest obtainable dimensions.

SPECIAL NOTICE.—Extra large sizes up to 16 ft. in length and 5, 6, 7, 8 and 9 ft. square, for Landings and Steps; also Portland Roach Stone for Engineering purposes at cheap rates, the latter being specially adapted for Harbour Walls, Foundations, Engine and Girder Beds, &c., &c.

EXTRACT FROM THE PRESS. *Vide* WEYMOUTH AND PORTLAND TELEGRAM, Nov. 21st, 1884.—In speaking of my Quarries on the East Cliff it says: "It is a pleasure to learn that some exceedingly fine blocks of 'durable' Stone are being quarried here of very great length and width, also that Stone from this side of the Island was selected for the building of St. Paul's Cathedral."

J. HODSON & SON,

QUARRY OWNERS AND GENERAL MASONRY CONTRACTORS.

CASTLE MEADOW ROAD, NOTTINGHAM,

(Connected by siding with Midland Railway).

ALTON STONE, Red and White.

NEW STANTON, PILLOUGH AND BIRCHOVER STONES.

WORKED STONE of every description, from the Quarries of Yorkshire, and Derbyshire; also Red Corsehill, Ancaster, Mansfield, Hopton Wood, and other Stones from the Northern and Midland Counties.

Turning, Moulding and Plain Work by Machinery, with the Latest Improvements.

GRINDSTONES AND SCYTHESTONES FOR HOME AND EXPORT.

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Branch Offices—
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BATE & KEMPSON,
Agents
1, CLARE ST., DUBLIN,
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ESTABLISHED 1838.

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Telegrams—
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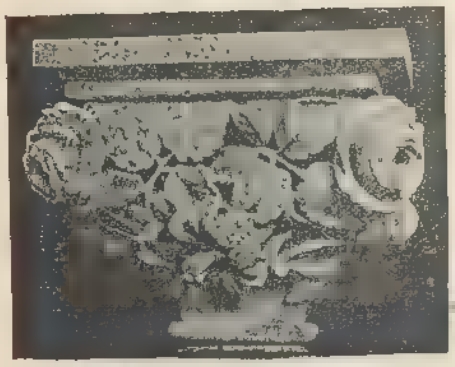
HEAD OFFICE AND WORKS | LINCOLN,

Manufacturers of

IMPERISHABLE CONCRETE MASONRY,

FOR ARCHITECTURAL DRESSINGS, STAIRCASES, AND ALL KINDS OF ENGINEERING PURPOSES



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RED, BUFF, OR ANY OTHER COLOUR, TO ANY DESIGN,

WITH THE MOST PERFECT &

ARTISTIC RESULTS,

AND IN USE AT OVER

500 Public Buildings, Residences, &c.

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Specialite in

ORIGINAL HIGH CLASS MODELLED ART PRODUCTIONS.

ADVANTAGES OVER STONE OR TERRA COTTA

FAR CHEAPER, MORE DURABLE AND UNIFORM IN COLOURS

TRUER LINES AND SPEEDIER DESPATCH

Photos of Buildings Erected and Estimates sent by Return of Post certain.

Built 1878.] ODD FELLOWS' HALL, LINCOLN. [Photographed 1889.
DRURY & MORTIMER, ARCHITECTS, LINCOLN
Showing our Concrete Masonry in position after 11 years' exposure.
Our estimate for Concrete Masonry for this Building was £100 below that of Natural Stone.

Extension of Works.

OWING to the daily increasing demand for our various productions we have found it necessary to double the size of our present Works, which, being now complete, enable us to execute the largest contracts in about a third the time required for Natural Stone or Terra Cotta.

A Photographic Studio is also attached expressly for Architectural Photography, so that Architects who entrust us with the execution of their orders can be supplied with Photos gratuitously of any works in progress.

"No greater enemy to stone can be found than frost, which is Nature's own quarryman. Messrs. Fambrini & Daniels' concrete stone has withstood this severe ordeal well and considering the cheapness of concrete stone compared with natural stone and the agreeable colour of the artificial substitute, it is surprising builders prefer to use friable Bath and other limestones for exposed wind, wash, copings, cornices, and other dressings of buildings."—*Building News, of June 12th 1885.*

"This Firm are certainly experts in concrete, their modelled art productions being so beautifully crisp and well undercut, that an experienced eye would have considerable difficulty in distinguishing them from actual carving, these features being so deficient in architectural terra cotta, and at the present time we can conscientiously assert that the art concrete productions executed by this firm stand alone."—*Builders' Reporter, May 3rd, 1889.*

"We commended this Imperishable Concrete Masonry to the attention of architects, engineers, and builders before with much confidence; we do so with tenfold confidence now."—*Railway Supplies' Journal, May 11th 1889.*

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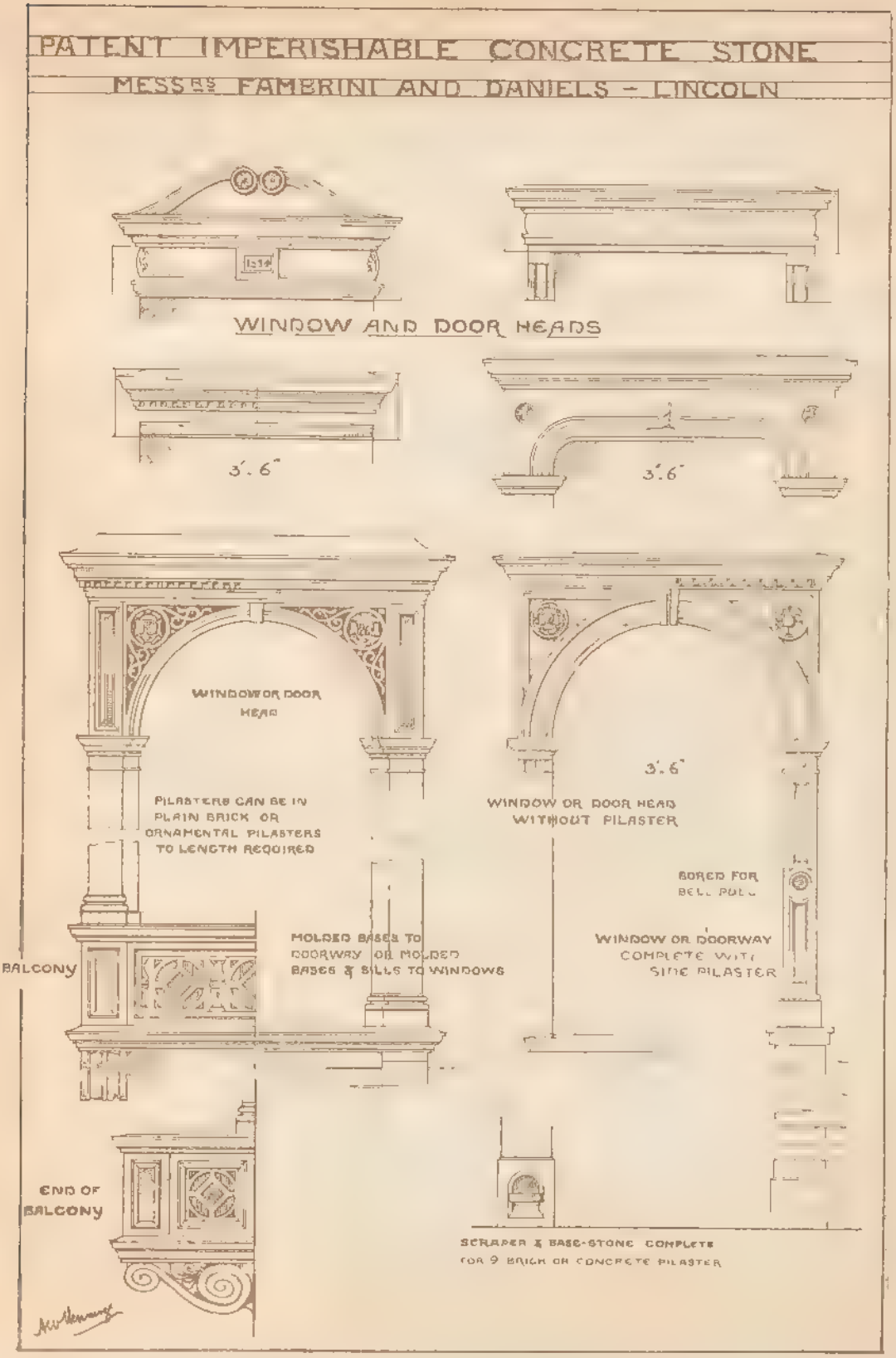

FULL PARTICULARS AND PRICES ON APPLICATION.

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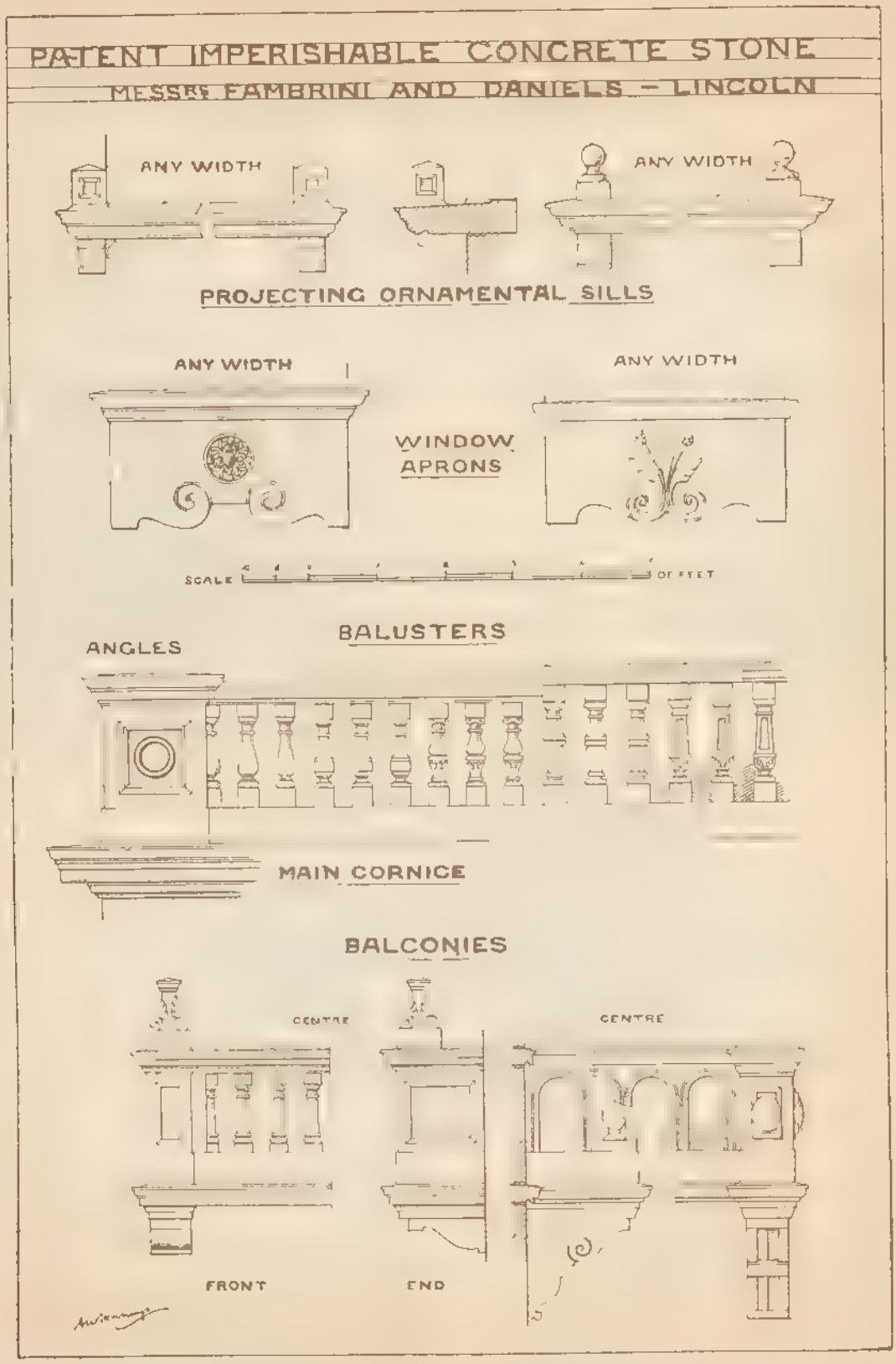

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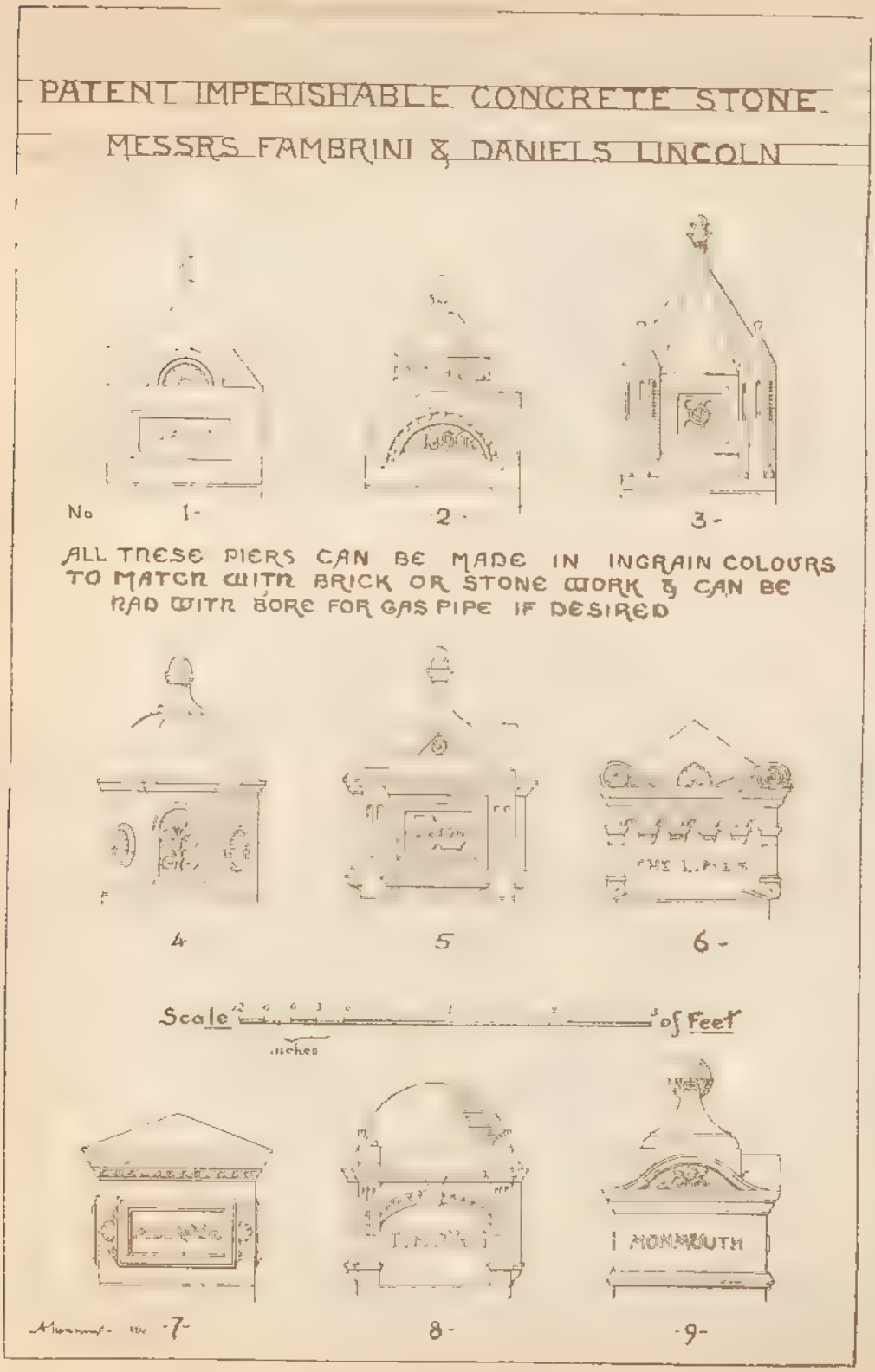

FULL PARTICULARS AND PRICES ON APPLICATION.

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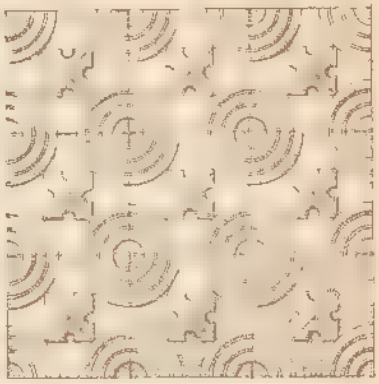
PATENT IMPERISHABLE CONCRETE STONE

MESSRS FAMBRINI AND DANIELS — LINCOLN



6 DIAPERS

THIS PANEL CAN BE MADE IN ANY COLOUR & IN ONE PIECE INCLUDING MOLD OR NOT AS DESIRED
MEDALLION IN CENTRE CAN BE EITHER MODELLED AS PORTRAIT OR DATE SUBSTITUTED

SCALE 6 3 0 1 OF FEET

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

GOODDY, CRIPPS & SONS, LTD.,

Marble Quarry Owners & Importers,

Depots & Saw Mills
LONDON: 14, WHARF GRAHAM ST., CITY RD., N.
LIVERPOOL: 15, 17 & 19, PARLIAMENT ST.
BRISTOL: REDCLIFF WHARF.

Registered Telegraphic Addresses
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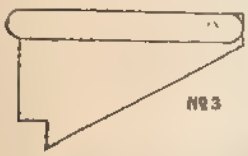
ITALIAN HOUSE—W. WALTON & NEPHEW, CARRARA.

The largest Stock in the United Kingdom of Statuary Sicilian and all kinds of Colour Marbles, Onyx, etc Quotations given to the Trade only for Slabs Scantlings and Blocks, also for Monuments, Figures, Vases Baths, Fountains Columns, Steps, Staircases, &c

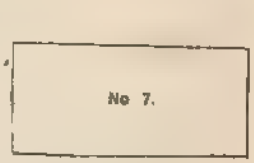
CAEN STONE.—Sole Receivers for the West of England, orders to be addressed to Bristol House

MARBLE STEPS.

Solid Sicilian Marble Steps at per lineal ft., the tread 12 in. wide with 6 in. riser, packed and delivered on rail in London, Liverpool, or Bristol. When Steps are returned only one end, the portion that goes in the wall will be charged for at same rate.



	Worked and Gritted.	Worked, Gritted and Returned one end.	Worked, Gritted and Returned two ends.	Worked and Polished.	Worked, Polished and Returned one end.	Worked, Polished and Returned two ends.
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
2	11 5	12 0	12 4	12 4	12 9	13 2
2 jointed as No. 3	12 0	12 4	12 9	12 10	13 6	14 0
3	12 9	13 6	14 0	13 4	14 0	14 8
3 jointed as No. 2	11 8	12 3	12 10	12 4	12 10	13 8
5	14 3	15 0	15 6	14 10	15 4	16 2
5 jointed as No. 3	12 9	13 6	14 0	13 4	13 10	14 8
5 " 2	12 0	12 6	13 6	12 10	13 8	14 6
7	11 0	11 8	12 0	12 0	12 4	12 9



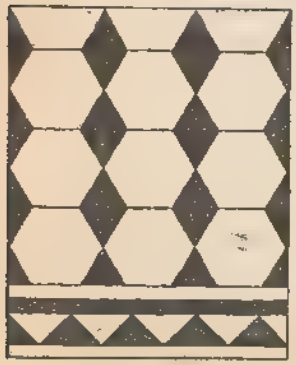
Prices for Black Devonshire or any Coloured Marbles to above or any other Section on application

MARBLE TILES.

FLOORING TILES IN GOOD MARBLE and best finish, jointed ready for laying, from 6 in. to 18 in. in squares and half squares half Black and half Sicilian, from sawn ½ in. slabs at 10s. 3d. per square yard, or from 1 in. sawn slabs, 12s. 3d per square yard

No. 2 ½ in. Scale.

No 4



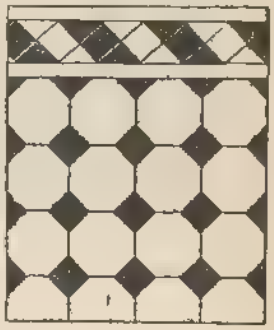
	¾ in. thick s. d.	1 in. thick s. d.
DESIGN No. 2.		
In Black and Sicilian squares and half squares.. ..	10 3	12 3
Border as shown, 9 in. wide	3 6	4 3
In Rouge and Sicilian squares and half squares ..	13 3	15 8
Rouge Border 9 in. wide	3 9	4 6
DESIGN No. 4.		
In Sicilian hexagons and Black rhombs.	16 0	19 6
Border as shown, 10 in. wide	3 0	4 9
In Sicilian hexagons and Rouge rhombs	18 4	22 0
Border 10 in. wide in Rouge and Sicilian	5 6	6 0
DESIGN No. 5.		
In Sicilian octagons and 4 in. Black squares	13 6	16 3
Border as shown, 10 in. wide	3 4	3 3
In Sicilian octagons and 4 in. Red squares	14 6	17 9
Border 10 in. wide in Rouge and Sicilian	5 3	6 3
In Rouge octagons and 4 in. White or Black squares	17 6	21 0
DESIGN No. 9.		
In Black and Sicilian, 5 in. rhombs	16 9	19 6
Border 10 in. wide as shown in Design No. 12	4 3	5 3
Rouge in place of Black rhombs	20 0	23 0
Rouge in place of White rhombs	21 0	24 0
Border as shown, but with Rouge strips, Design No. 12	6 0	8 0

The Flooring Tiles are quoted at per super yard, and the Borderings at per lineal yard, packed and delivered to rails in London, Liverpool or Bristol, in quantities of 50 yards super and upwards, less quantities charged 10 per cent. extra. Sicilian Tiles are sanded, and the Black Tiles finely gritted on the face.

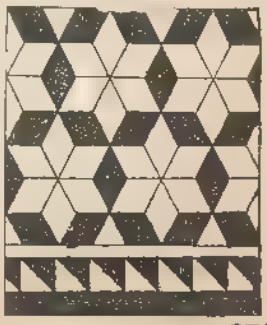
Quotations for thicker Tiles and Borderings and other designs, also half and full polished finish on application.

Estimates given for whole Floors to Architects' designs. Full Design Sheets and Sample Tiles on application.

No. 5. ½ in. Scale.



No 9.



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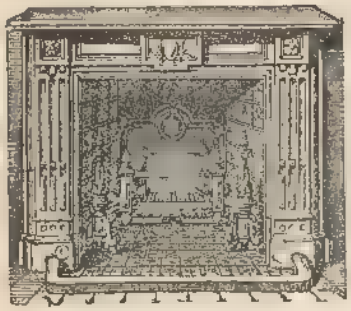

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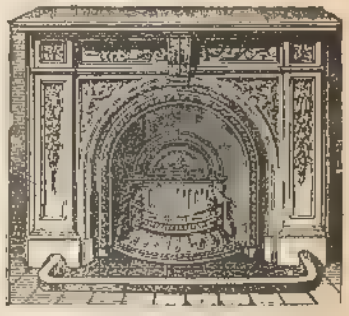
of every approved make, with all the most recent improvements, with
GODWIN and other ART TILES.



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WITH DESCENDING CANOPY FORMING A BLOWER, SOLID FIRE BRICK BACK AND SIDES TO FIRE ON Dr. PRIDGIN TEALE'S PRINCIPLE.

IMPROVED PROJECTING FIRE STOVES WITH TILES ALL ROUND.
INTERIORS WITH SLABBED TILE CHEEKS, & HEARTHS EN SUITE.

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With Patent Adjustable Bottom, Grate giving any depth of Fire, with top and bottom draughts to Oven at the same time.

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Special facilities in Sawing, Turning, Polishing, and Moulding, by improved machinery

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ECCLESIASTICAL ✻ BUILDERS, ✻

✻ SCULPTORS, ✻ AND ✻ CARVERS.

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THE

COMPLETE CATALOGUE.

Section J.

METAL WORK.

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J—METAL WORK.

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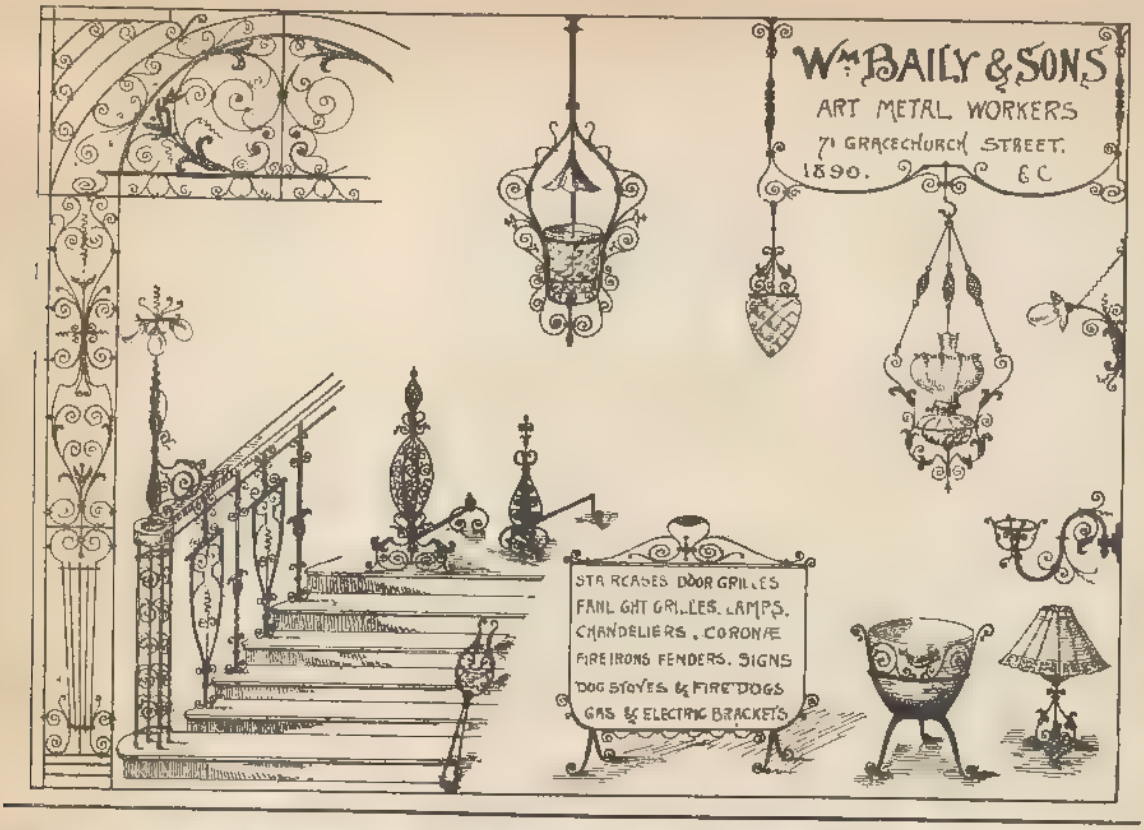

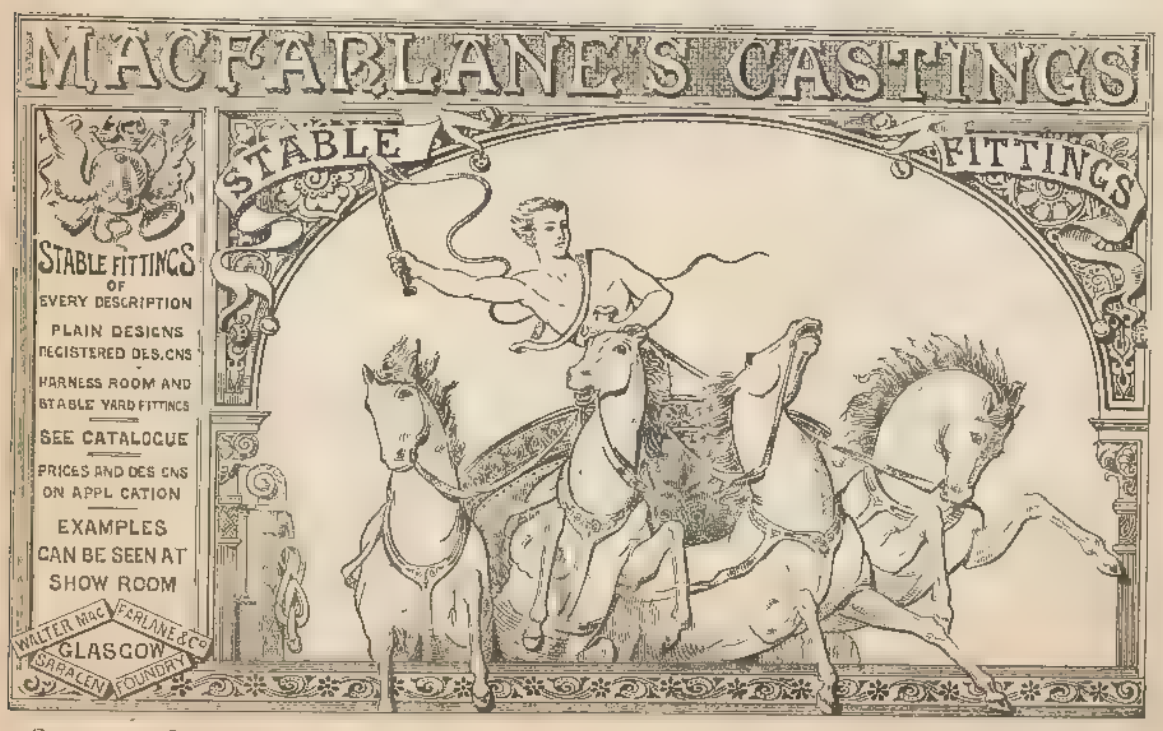

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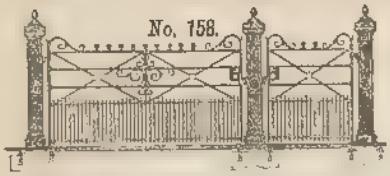
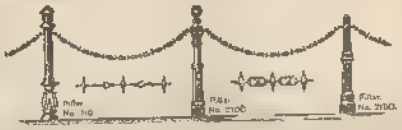
BAYLISS, JONES, & BAYLISS'S

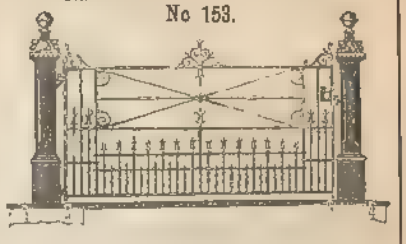
ORNAMENTAL CARRIAGE AND SIDE GATE.
No. 158.



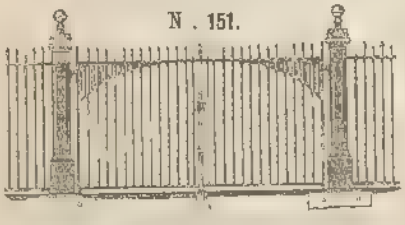
ORNAMENTAL
CHAIN FENCING FOR CARRIAGE DRIVES.



ORNAMENTAL CARRIAGE GATE.
No 153.

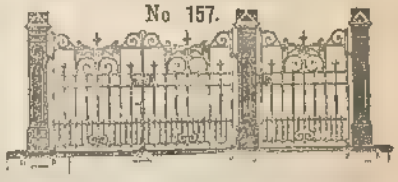


EXTRA STRONG UNCLIMBABLE GATES.
N . 151.

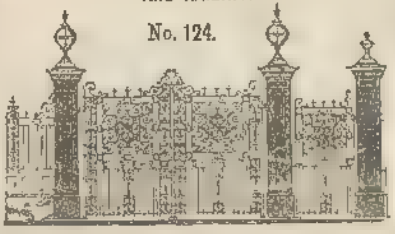


WROUGHT IRON CARRIAGE AND SIDE GATE.
No. 155.

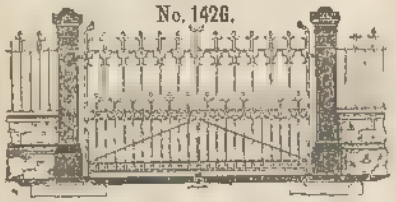
PAIR ENTRANCE GATES AND SIDE GATE.
No 157.



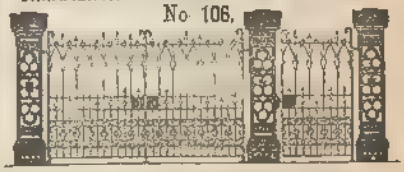
ORNAMENTAL WROUGHT IRON ENTRANCE GATES
AND RAILING.
No. 124.



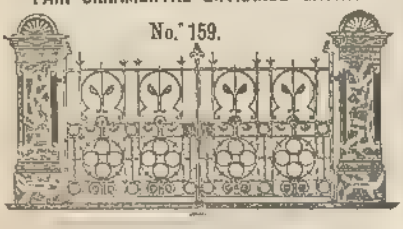
PAIR GOTHIC ENTRANCE GATES.
No. 142G.



ORNAMENTAL ENTRANCE AND SIDE GATE.
No 106.



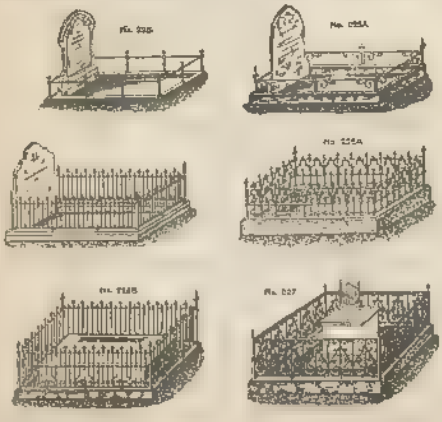
PAIR ORNAMENTAL ENTRANCE GATES.
No. 159.



ORNAMENTAL ENTRANCE GATES.
No 133 R.

WROUGHT IRON ENTRANCE GATES.
No 72B.

ORNAMENTAL WROUGHT IRON TOMB PALISADING.



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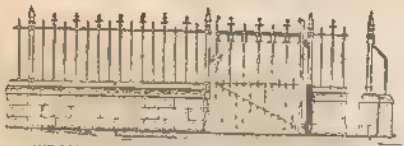
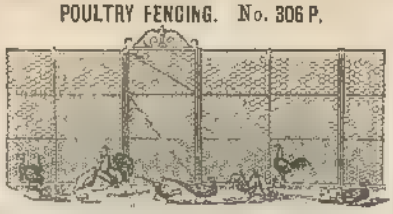
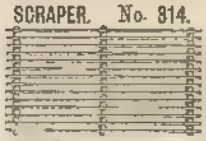
WROUGHT IRON PALISADING No. 218.



POULTRY FENCING. No. 306 P.

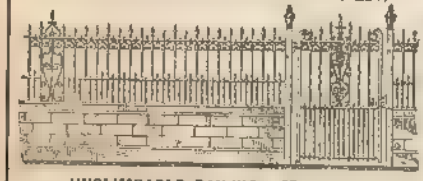


WROUGHT IRON FOOT SCRAPER. No. 314.

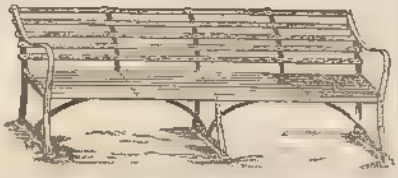


FOR P[illegible] BUILDINGS, CHURCHES, MANSIONS, &c

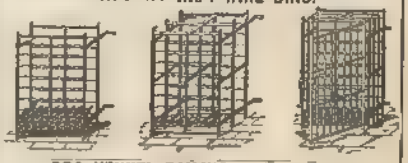
WROUGHT IRON PALISADING No. 251.



WROUGHT IRON GARDEN SEAT. No 140.



WROUGHT IRON WINE BINS.



UNCLIMBABLE RAILING. No. 111 H.

WROUGHT IRON HEAD ALTERNATELY

FILLAR No. 21 L

LAWN TENNIS FENCING. No. 311.

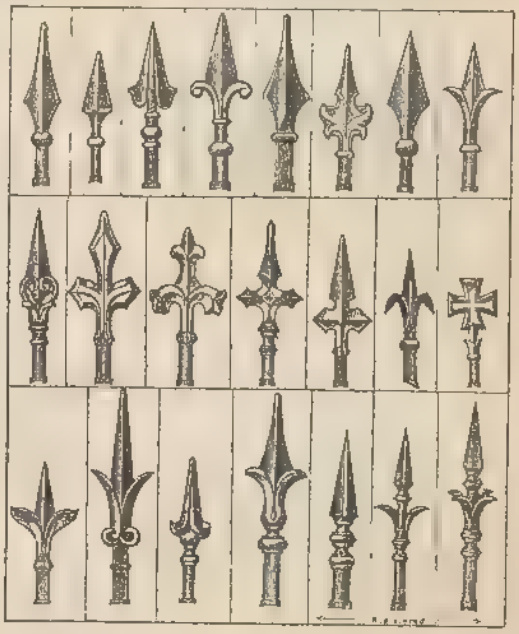
DOG KENNEL RAILING. No 18 K.

WROUGHT IRON PALISADING. No. 110 L.

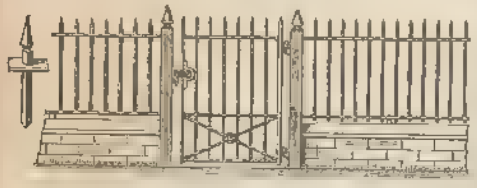
WICKETS.

No 2 H

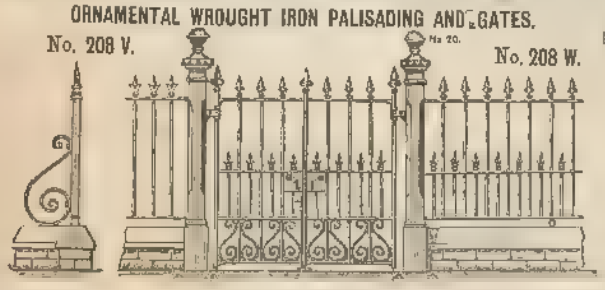
ORNAMENTAL WROUGHT IRON STAMPED HEADS, FOR PALISADING GATES &c.



WROUGHT IRON PALISADING.
No. 203 S. No. 202 A.



ORNAMENTAL WROUGHT IRON PALISADING AND GATES.
No. 208 V. No. 208 W.



LOW PRICES ON APPLICATION.

Telegrams— BAYLISS, WOLVERHAMPTON LOCKFAST, LONDON

MANUFACTORY:

VICTORIA WORKS, WOLVERHAMPTON.

London Offices & Show Rooms, 139 & 141, CANNON ST., E.C.

Telegrams BAYLISS WOLVERHAMPTON LOCKFAST, LONDON

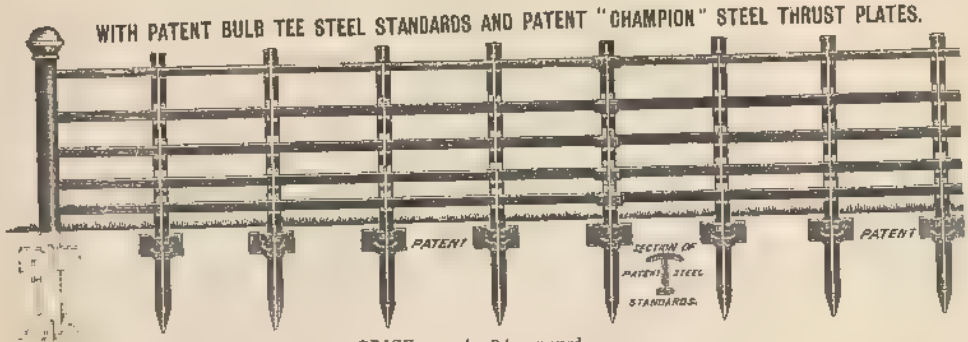
COMPLETE CATALOGUE OF ALL KINDS OF HURDLES, IRON AND WIRE FENCING, GATES &c., FREE ON APPLICATION

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

BAYLISS, JONES, & BAYLISS'S

PATENT CONTINUOUS FLAT BAR FENCING,

WITH PATENT BULB TEE STEEL STANDARDS AND PATENT "CHAMPION" STEEL THRUST PLATES.



FULL SIZE SECTION OF PATENT BULB TEE STANDARDS

PRICE, from 1s. 9d. per yard.

The Standards are made in one solid piece of Best STEEL, so that no welding is required, and the danger of the feet breaking off at the ground line is avoided. The vertical system of wedging considerably strengthens the fence, and prevents the Standards from being removed out of the perpendicular. The Patent "CHAMPION" STEEL Thrust Plate gives additional strength and rigidity at ground line. It slides down the back of the Standard, and is then driven into the solid ground, consequently the fence is much firmer than it would have been if the ground had been disturbed. As may be seen from the sketch, the fence can be fixed on the purchaser's boundary, thus saving 6 or 9 inches of ground.

COPY OF TESTIMONIAL. (Others on application.)

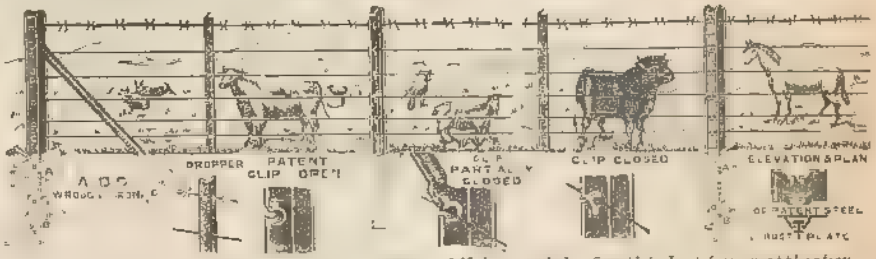
July 4th, 1887.

GENTLEMEN, We have put up just upon two miles of your No. 15 B. J. S. Continuous Fencing, with Bulb Tee Steel Standards and Thrust Plates. It is very easily fixed, and gives entire satisfaction. It is impossible to make a better Fencing. It is neat and strong.

THE "VICTORIA" RIVETLESS HURDLE.

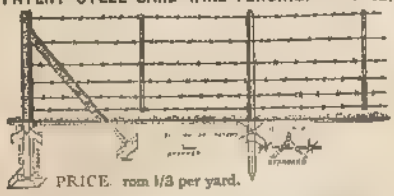
The strongest, cheapest and most rigid Hurdle ever offered to the public. Drawing A shows bar threaded through the upright, ready for clenching, and drawing B the horizontal bar after it has been clenched to the upright. The mode of manufacture ensures first-class Iron, as none other will stand the test.

WIRE FENCING WITH PATENT "NATIONAL" STEEL STANDARDS AND PATENT CLIPS.



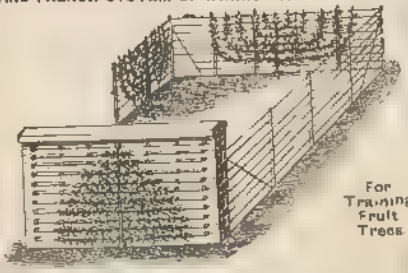
Threading of Wires through Standards and Digging of Holes avoided. *Complete List free on application.*

PATENT STEEL BARB WIRE FENCING. No. 48.



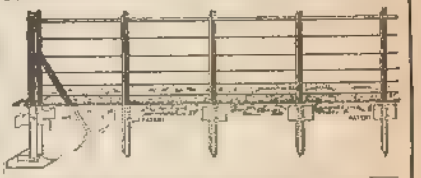
PRICE, from 1/3 per yard.

IRON AND WIRE ESPALIER, AND FRENCH SYSTEM OF WIRING GARDEN WALLS.

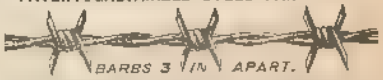


For Training Fruit Trees.

COMBINED SOLID BAR & WIRE FENCING No. 1045

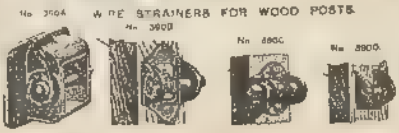


PATENT GALVANIZED STEEL BARB WIRE.



CONTINUOUS FENCING, WITH CAST IRON WING EARTH PLATES.

PRICE, from 2s. per yard.



CONTINUOUS FENCE WITH TURNOVER TOP.

Telegrams—
BAYLISS, WOLVERHAMPTON
LOCKFAST, LONDON

MANUFACTORY:

VICTORIA WORKS, WOLVERHAMPTON.

London Offices & Show Rooms, 139 & 141, CANNON ST., E.C.

Telegrams
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LOCKFAST, LONDON

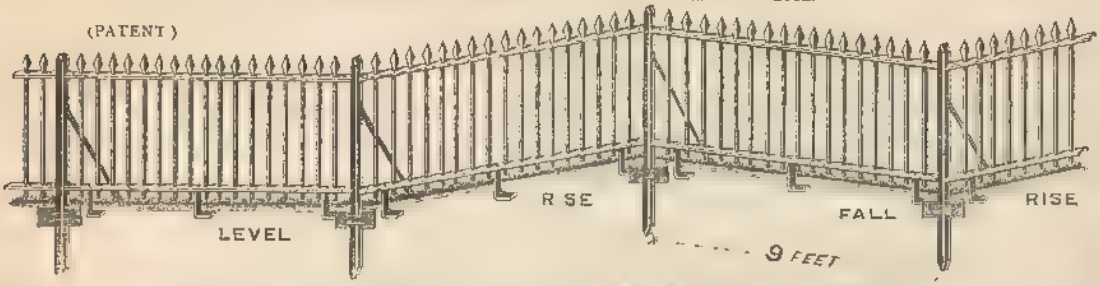
COMPLETE CATALOGUE OF ALL KINDS OF HURDLES, IRON AND WIRE FENCING, GATES, &c., FREE ON APPLICATION.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

BAYLISS, JONES, & BAYLISS'S

SELF-ADJUSTING UNCLIMBABLE STEEL RAILING. No 2762.

(PATENT)

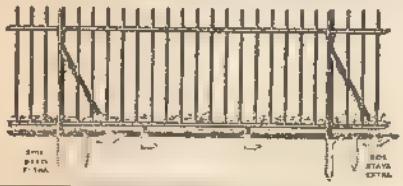


The above Railing will adapt itself to a rise or fall of the ground equal to one in six

This Railing has been designed to supply a long felt want as it will adapt itself to the rise or fall of the ground It is far superior in appearance to the ordinary railing with round bars, although it is not more expensive, special plant having been laid down for its manufacture It is sent in bundles, and easily put together on site of erection on an entirely new and patented principle which securely locks each bar when fixed The Connecting Standards and Vertical Bars are of Steel The Horizontal Bars are made of a strong section of Channel Steel, which, combined with square bars and spear heads, gives the fence a good bold appearance. Where a cheap, strong and unclimbable railing is required, it cannot be surpassed

The above Railing can be fixed close up to the purchaser's boundary thus saving eight or nine inches of land

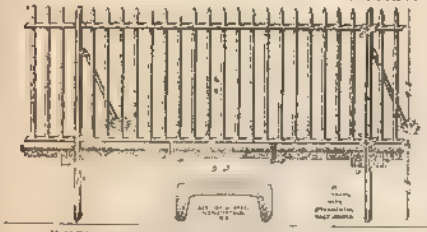
LIGHT UNCLIMBABLE RAILING. No. 112K.



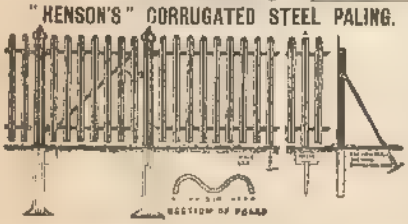
UNCLIMBABLE RAILING.

AT VERY LOW PRICES

UNCLIMBABLE TUBULAR RAILING. No. 1112T.



"KENSON'S" CORRUGATED STEEL PALING.

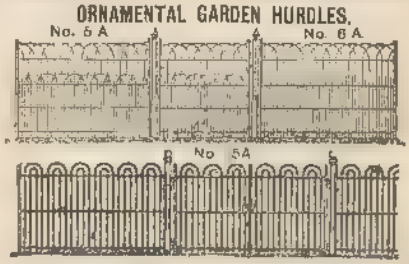


STRONG UNCLIMBABLE TUBULAR PARK PALISADE WITH CAST IRON PILLARS.

No. 2051T.

PRICE, from 18s. 3d. per yd

ORNAMENTAL GARDEN HURDLES.

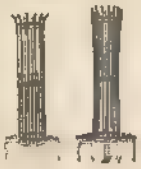


SWINGING FOOT-PATH GATES.

UNCLIMBABLE HURDLES AND RAILING.

AT VERY LOW PRICES.

TREE GUARDS.



WROUGHT IRON WHEELBARROW.

No. 1 S. With Steel Body

Telegrams— BAYLISS WOLVERHAMPTON LOCKFAST, LONDON

MANUFACTORY:

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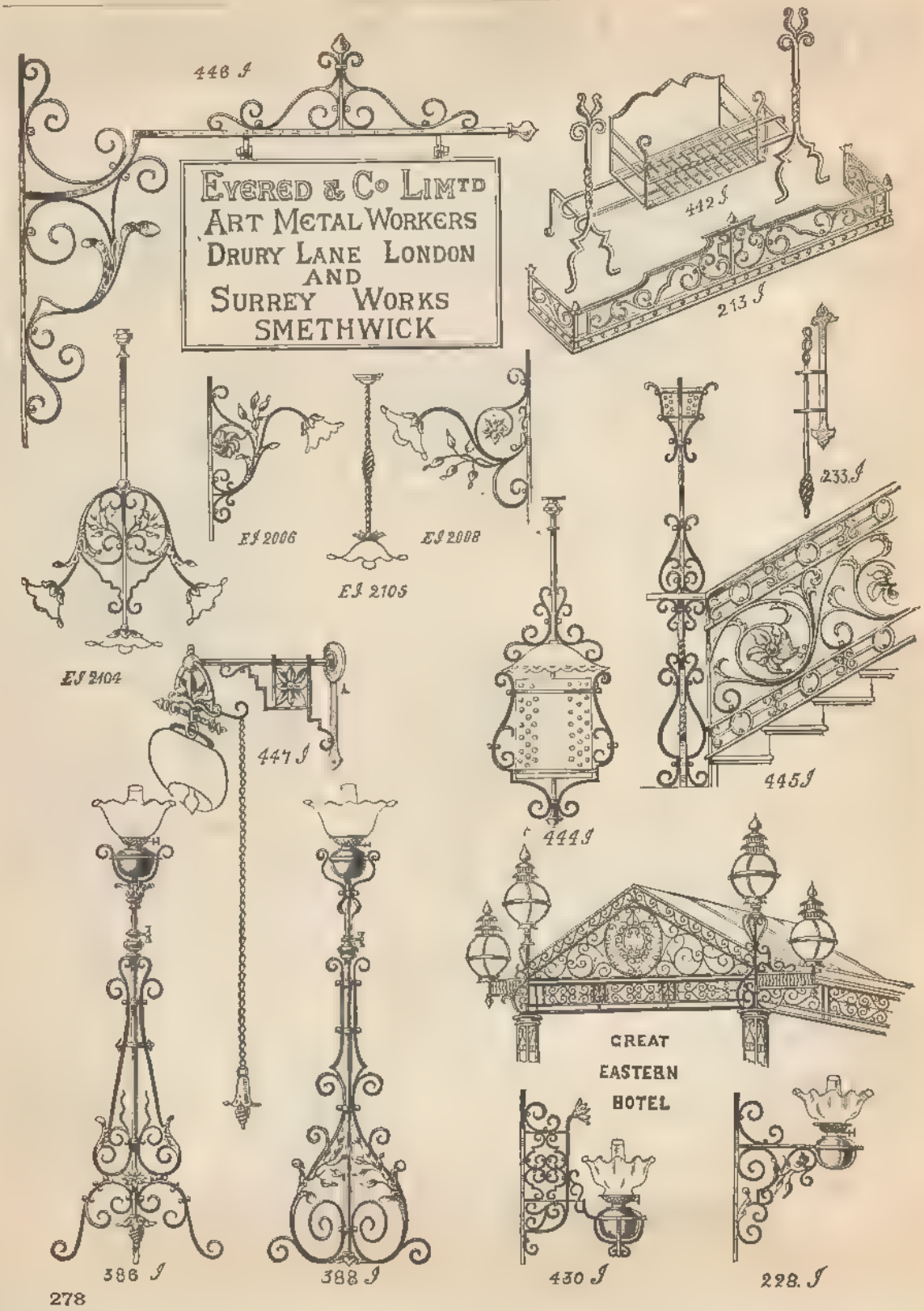

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Manufacturers of ELECTRIC LIGHT FITTINGS,

IN WROUGHT IRON, BRASS AND COPPER.

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WALL LIGHT, IN POLISHED BRASS & COPPER.

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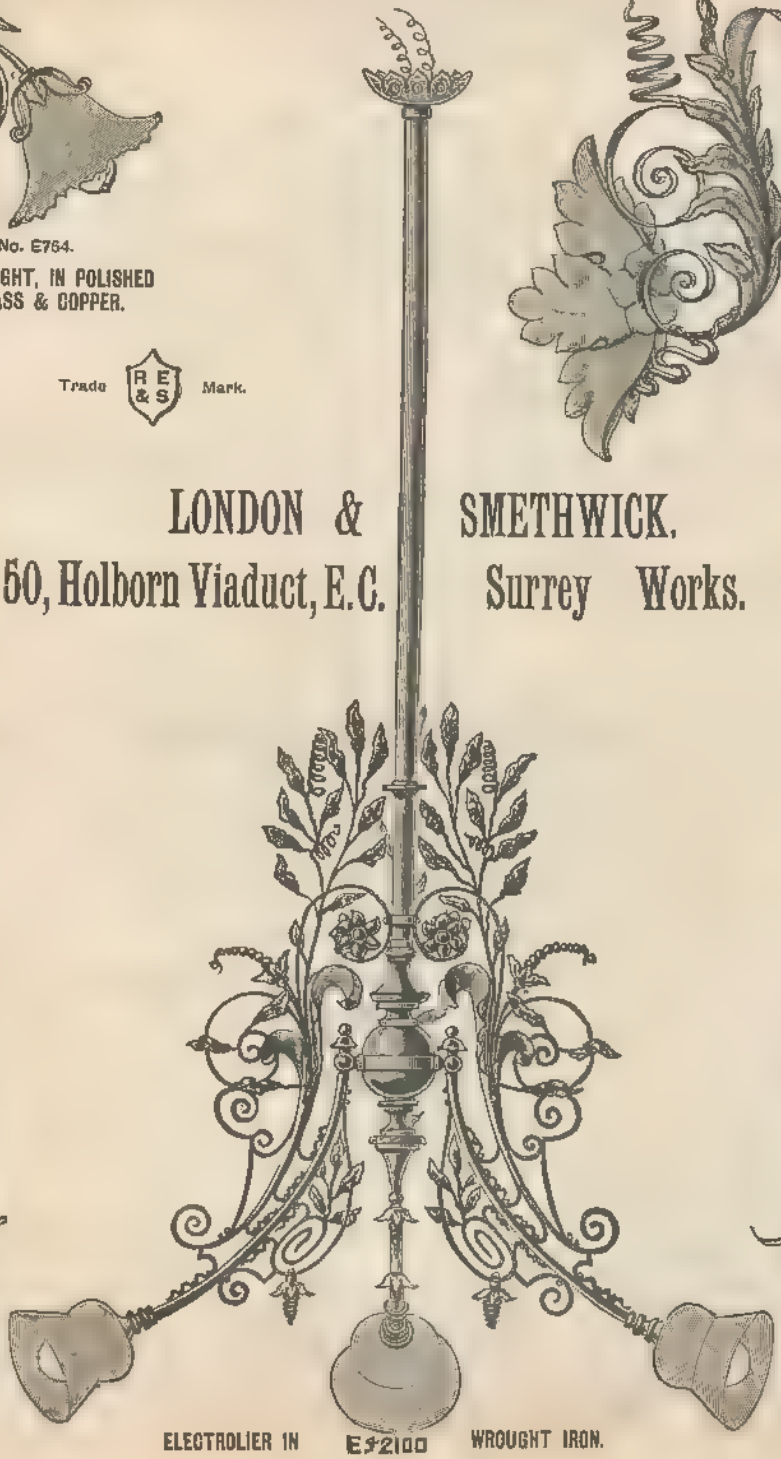
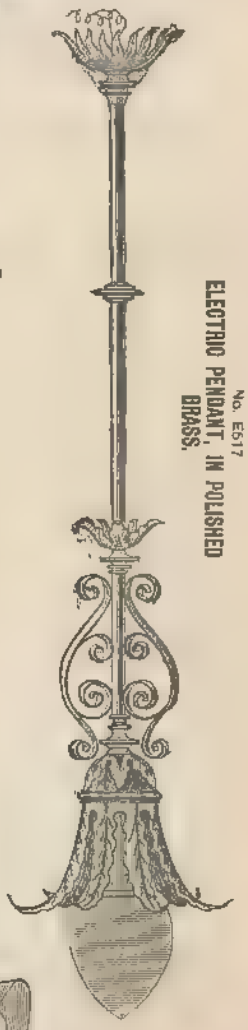
No. E518.
ELECTRIC PENDANT, IN POLISHED BRASS.



ELECTROLIER IN E\$2100 WROUGHT IRON.



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ELECTRIC PENDANT, IN POLISHED BRASS.

Architects' Designs carefully carried out

Catalogues or Special Designs supplied

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27 & 29, HATTON GARDEN, & STOCKDALE STREET, LIVERPOOL.

Telegraphic Address—"Corrugated, Liverpool."

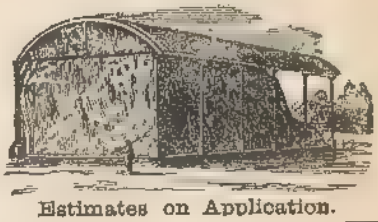
Iron Structures for Churches, Chapels, Schools, &c.

GALVANIZED IRON

CHURCHES, CHAPELS, SCHOOLS, AND MISSION ROOMS.

CRICKET AND TENNIS PAVILIONS, STABLES AND COACH HOUSES, HAY, CORN, AND CATTLE SHEDS.

Corrugated Curved Iron Roof on Cast Iron Columns



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Estimates on Application.

DYSON & Co.

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ESTABLISHED OVER A CENTURY.

BRASS & BRONZE SHOP-FRONT BUILDERS.

SOLE INVENTORS AND PATENTEES OF THE

Diamond Pattern, & Fluted Bronze Stall & Door-Plates (*requiring no cleaning.*)

ARCHITECTURAL METAL WORK. BANK and OFFICE FITTINGS.

ENGINEERS AND MACHINE TOOL MAKERS.

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RUSTLESS IRON.

Wrought Iron Pipes, Fall Pipes, Gutters, Air Bricks, Gates, Railings, Stable Fittings, Baths, Furnace Pans, and all descriptions of Ironwork treated by the BOWER-BARFF process.

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TELEGRAPHIC ADDRESSES:

"FIELD, KEIGHLEY."

"NOTSUR, LONDON.

'St. David's Church, Bangor, *January 8th, 1890.*

"Sir Arthur Blomfield desires me to say that he is quite satisfied with the Wrought Iron Gates."

WORRALL,

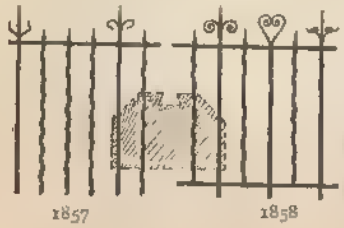
GATESMITHS,

AND

Art Metal Workers.

"Putney, *19th June, 1869*

"With reference to the Iron Railings and Gates you have fixed at East Putney Station, I would at the same time express my own satisfaction. "H. B. Lakey *for* Lucas & Aird



1857 1858

1859 1869 1859

1861 1862 1863

TUE BROOK IRONWORKS, BYROM ST., LIVERPOOL.

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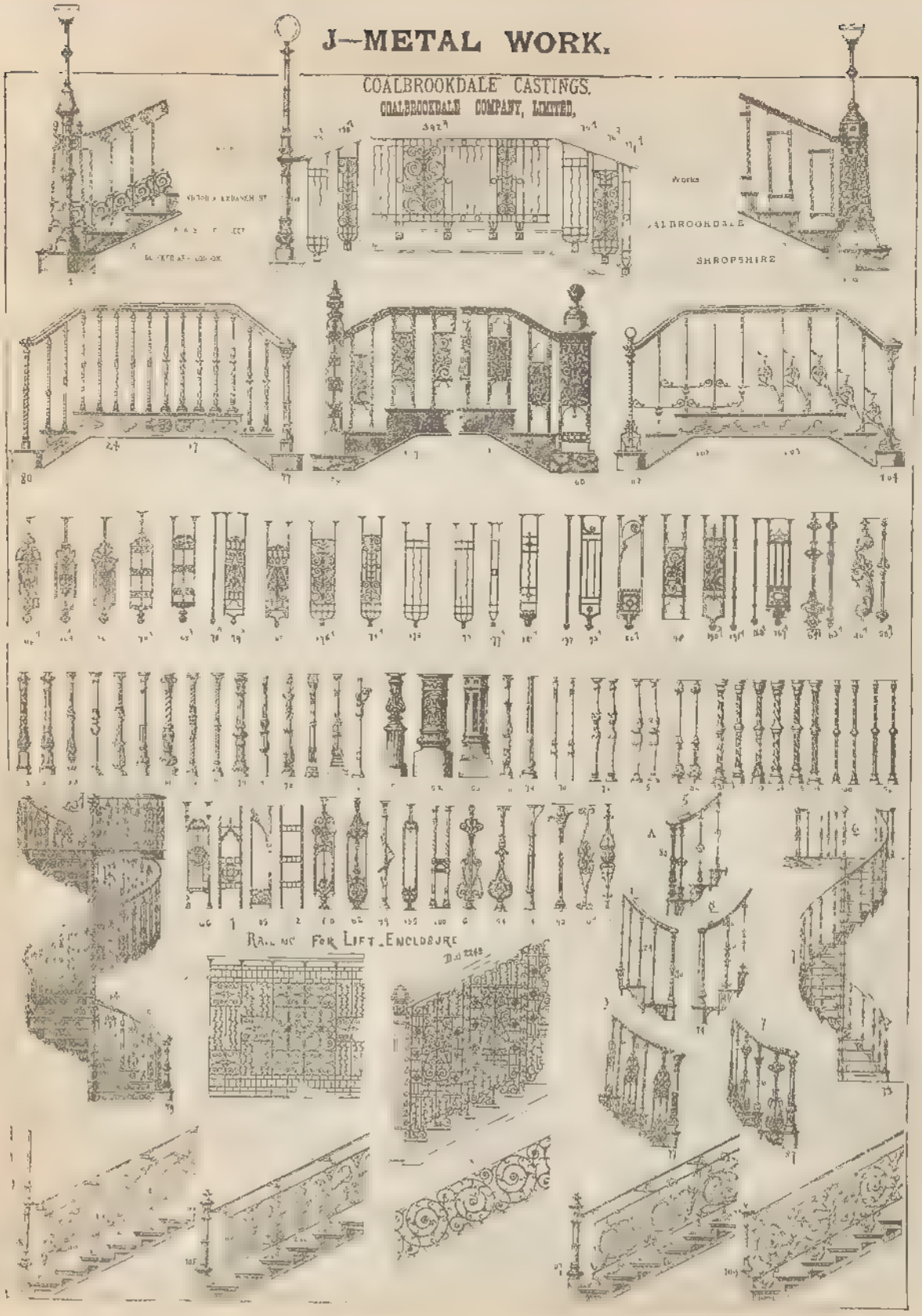
J—METAL WORK.



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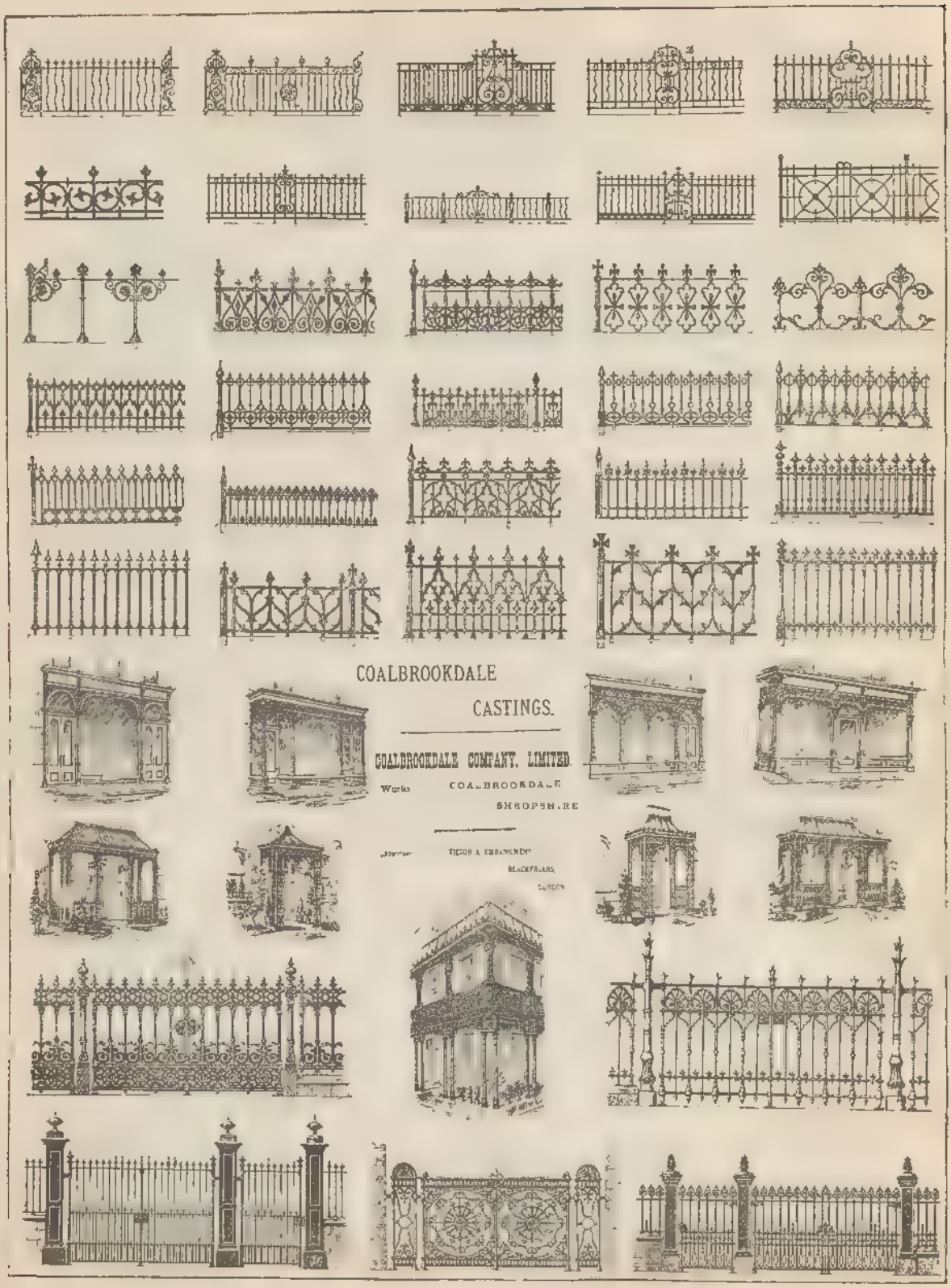
J—METAL WORK.



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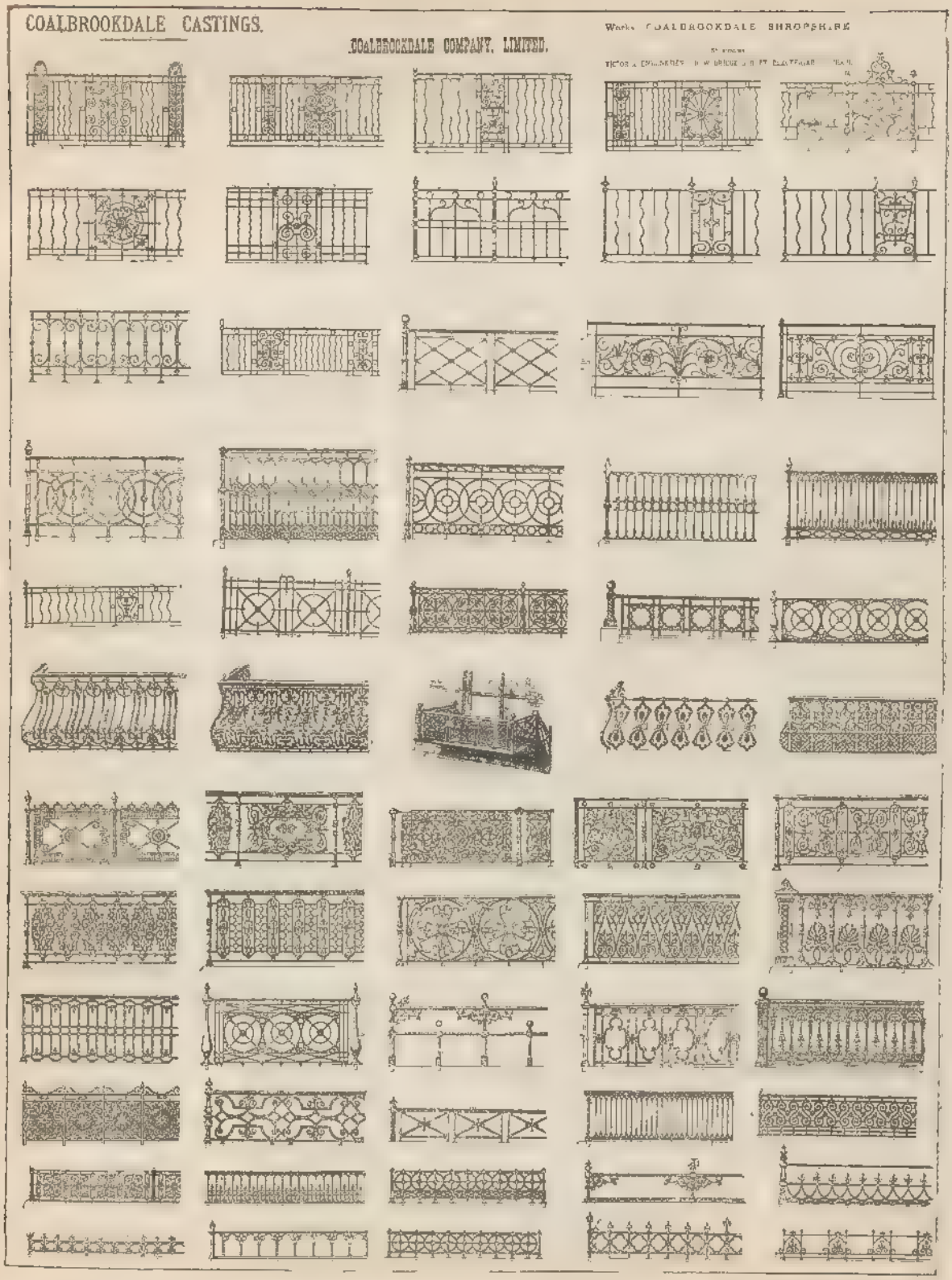
J—METAL WORK.



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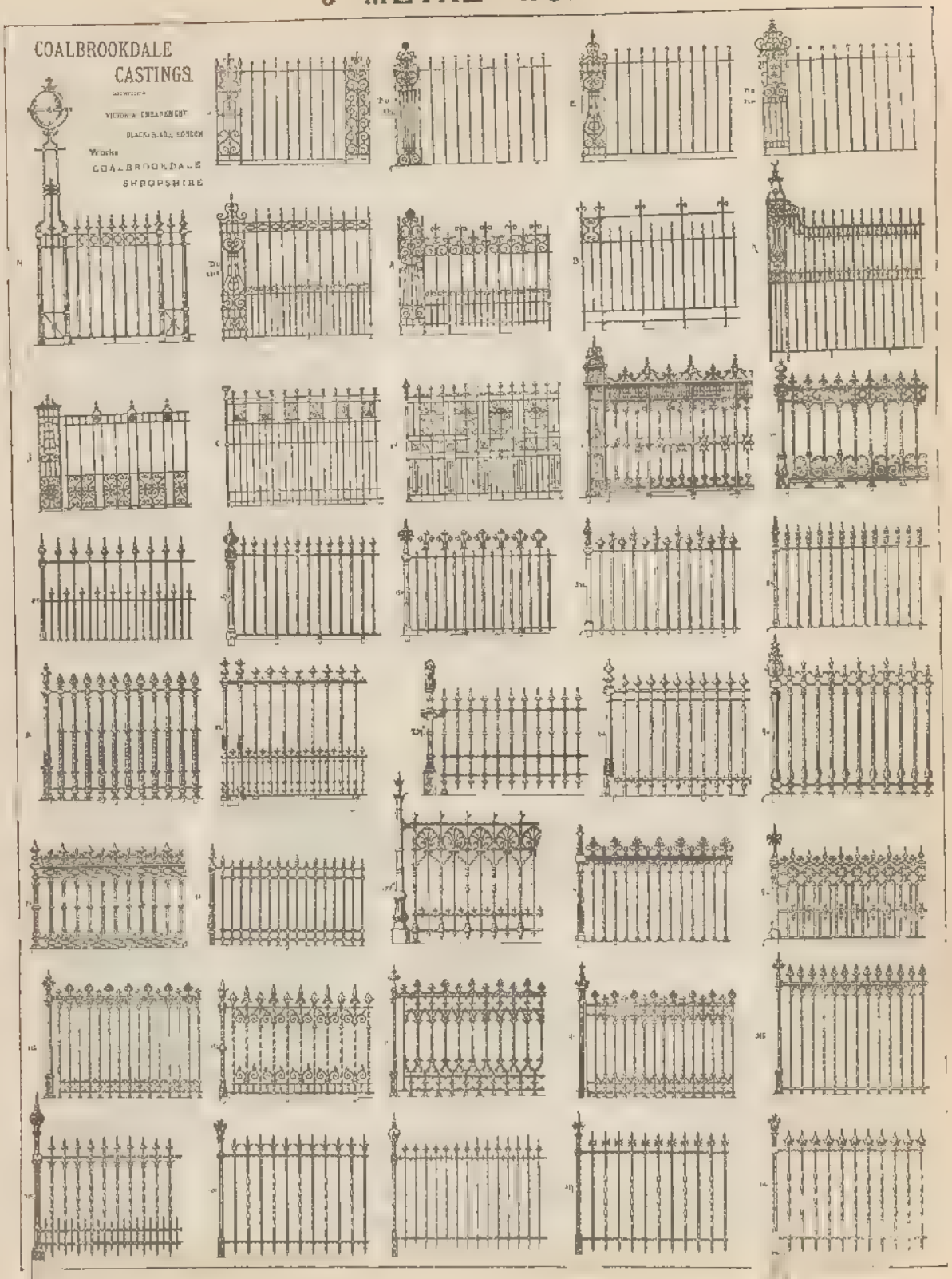

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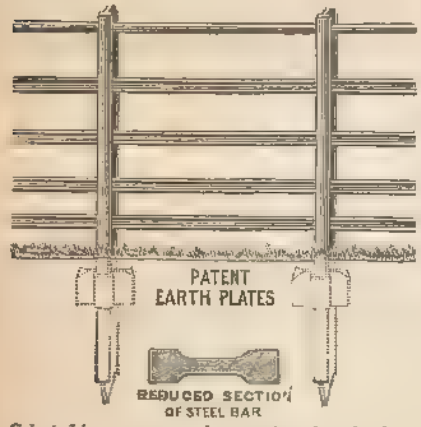
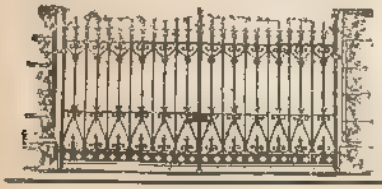
"SPECIAL" STEEL BAR FENCE.



Selected in every case when compared with others.

WROUGHT IRON ENTRANCE GATES.



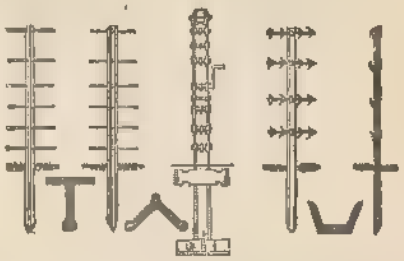
ORNAMENTAL ENTRANCE GATES & RAILINGS,
With Wrought and Stamped Ornamental Work.

GRILLS, HANDRAILS, &c., in Wrought Iron.

ARCHITECTS' OWN DESIGNS ESTIMATED FOR, AND CAREFULLY CARRIED OUT.

77a,
Queen Victoria Street,
LONDON, E.C.,
AND
CLYDESDALE IRON WORKS,
POSSIL PARK,
GLASGOW.

SPECIALTIES IN WIRE FENCING



PARK, FARM, AND RAILWAY FENCING.

UNCLIMBABLE & ORNAMENTAL RAILINGS AND HURDLES.

Catalogue of Fencing, Entrance Gates, Tree Guards, Railings, &c., free by post.

THE BARTON-BALLARD STABLE FITTINGS

ADOPTED IN THE STABLES OF H.R.H. THE PRINCE OF WALES

New Patented Improvements. Perfected Designs. Registered Patterns Recommended for their Safety, Sanitary Advantages, and Economy.

DATA FOR COST OF HIGH CLASS FITTINGS

Iron Stall or Loose Box Division, with Post and Sill	110/- per set
Iron Stall or Loose Box, Manger Fittings	47/6 "
Sanitary Guttering	22/6 per stall
"Perfection" Ventilators	35/- "
Patent Safety Tyings	21/- per set
Steel Corn Bins	22/6 per sack
Registered Harness Brackets	12/6 per set
Saddle Brackets	6/6 per set

Cow-Stall Fittings. Adamantine Paving Bricks. Albert Chimney Caps.

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HAYWARD BROTHERS & ECKSTEIN,

Telegraphic Address—"Hayward Brothers London."

PATENT PAVEMENT LIGHT WORKS,

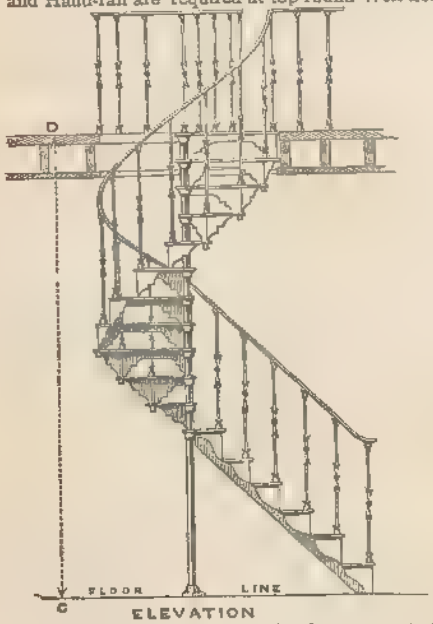
UNION STREET, BOROUGH, LONDON, S.E.

Hayward's Improved Circular Iron Staircases.

TREAD, RISER, & SPANDRIL IN ONE.

Which gives much greater strength and stiffness than when the Treads are built up of Three pieces.

ORDERS AND INQUIRIES should state the outside diameter, A B, and the height from floor to floor C D and give a rough sketch of position of Staircase showing convenient point for first step on ground floor and top landing, and whether Balusters and Hand-rail are required at top round Well-hole.

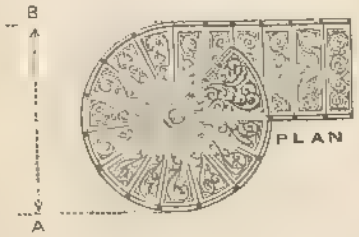


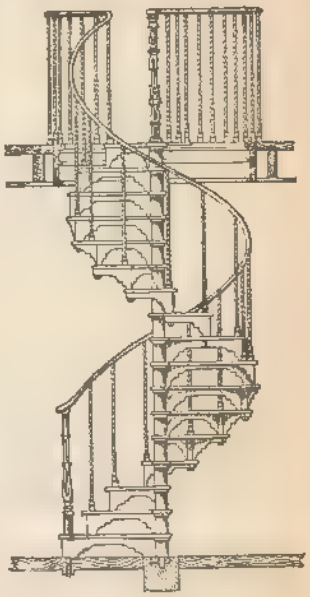
Right Hand Staircase, part circular and part straight.

STOCK SIZES.

Circular	Straight
3½ ft. diameter.	2 ft. 0 in.
4 " "	2 " 4 "
4¼ " "	2 " 8 "
4½ " "	3 " 0 "
5 " "	3 " 4 "
5½ " "	Other sizes to order.
6 " "	

The Circular Staircases are made right or left hand.





Circular Staircase, left-hand.

APPROXIMATE PRICE OF HAYWARD'S CIRCULAR STAIRCASES FROM STOCK.

Including top landing and three ornamental bars on landing, one bar on each step, with half-round hand rail, fitted and marked ready for fixing—

Diameter 3 ft. 6 in.	per foot rise	.. ..	16/-
" 4 ft. 0 in.	"	.. ..	18/-
" 4 ft. 3 in.	"	.. ..	19/-
" 4 ft. 6 in.	"	.. ..	20/-
Diameter 5 ft. 0 in.	per foot rise	.. ..	22/-
" 5 ft. 6 in.	"	.. ..	34/-
" 6 ft. 0 in.	"	.. ..	38/6

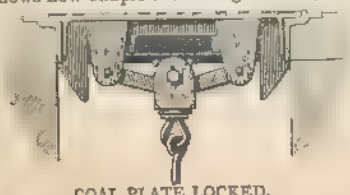
Hand-rail round Well-hole at top extra if required, and according to size. *Ornamental Panel Balusters, or two bars on a step, extra.*

Straight Iron Staircases in Stock—2 ft., 2 ft. 4 in., 2 ft. 8 in., 3 ft., and 3 ft. 4 in. wide.

ESTIMATES ON RECEIPT OF PARTICULARS FOR ALL KINDS OF IRON STAIRCASES.

HAYWARD'S PATENT SELF-LOCKING COAL PLATE

Consists of a Protecting Ring fixed in the pavements into which the Self Locking Coal Plate is dropped and immediately secured or locked by projecting bolts on each side, actuated by an ingenious arrangement of two small Levers with a small weight in centre. The Coal plate can be pushed out with a broom handle or stick, or a rod connected with the centre weight. The drawing clearly shows how simple the arrangement is, and being so compact in itself, cannot be broken or get out of order.



COAL PLATE LOCKED.

PRICES OF HAYWARD'S PATENT SELF-LOCKING COAL PLATE AND PROTECTING RING.

	Outside Diameter of Coal Plate, and inside rabbet of ring. 12 in.	14 in.	16 in.	18 in.
No. 1 B.—Illuminating	7/6	9/6	13/0	16/0
No. 1 C.—Ventilating	4/6	5/6	7/0	8/0
No. 1 D.—Solid Iron	4/6	5/6	7/0	8/0

Rods extra, if required

ARCHITECTS should specify HAYWARD'S Patent Self-Locking Coal Plates, Illuminating, Ventilating, or Solid Iron.

Prices of Hayward's Improved Safety Coal Plates, Circular and Square Cellar and Vault Lights, &c., on application.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WILLIAM HAYWARD & SONS,

Established 1880,

BRUNSWICK WORKS, BILSTON RD., WOLVERHAMPTON.

Telegraphic Address—"HAYWARD, WOLVERHAMPTON."

ORNAMENTAL WROUGHT IRON PALISADING.

No. 131

2 ft. 6 in. high . . . . price, per yd. 21/
3 ft. 0 in. . . . ,, 23
Hand Gates, to match 3 ft. 6 in. wide, with lock, and hung to 1½ in. square, wrought iron Pillar, with back stays, . . price complete £8 5 0

ENTRANCE GATES.

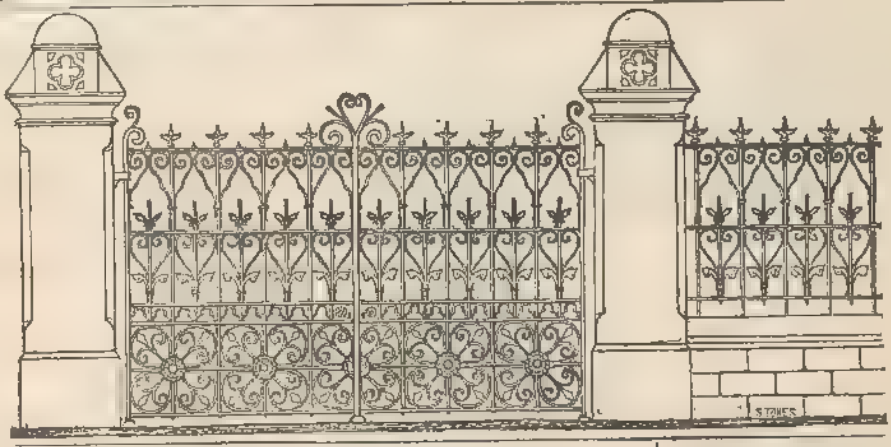
No. 109.
9 ft. 0 in. wide × 4 ft. 3 in. high in centre.
Gates only . . . . — per pair £10 10 0
Gates and Pillars for Stone ,, £18 0 0

WROUGHT IRON GOTHIC ENTRANCE GATES.

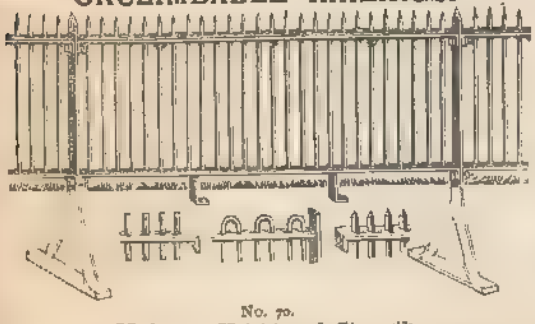
No. 125

10 ft. 0 in. wide × 5 ft. 0 in high, with lock & sham, and hangings for stone pier per pr. £31 0 0

Wrought Iron Railings, to match 4 ft 0 in high, with pillar and stay every 9 ft apart, price per yd £2 5 0



UNCLIMBABLE RAILINGS.



No. 70.
Made any Height and Strength.

No. 92.

TREE GUARD.

5 ft. 0 in × 2 ft 3 in diameter

Price 14/3 each

WROUGHT IRON RAILING HEADS.

Full Illustrated Catalogues of all kinds of Fencing, Hurdles, &c., free on application.

ALL PRICES SUBJECT TO THE FLUCTUATIONS OF THE IRON MARKET.

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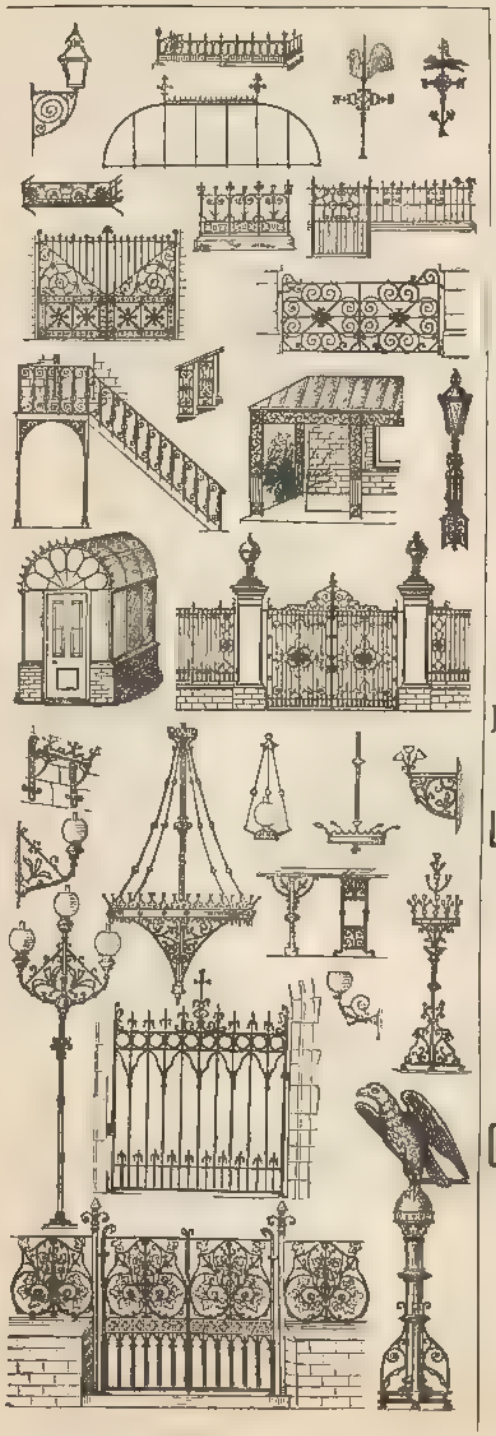
A. GARDINER & SONS,



ALL SAINTS' IRONWORKS, BRISTOL.

Show Rooms and Offices: NELSON STREET.

Manufacturers of

ECCLESIASTICAL AND DOMESTIC WROUGHT IRON & BRASS WORK.

GATES, RAILINGS, FINIALS, & VANES,

LAMPS { Bracket and Pillar.

VERANDAHS.

PORCHES.

Grills and Signs. FOR SHOP FRONTS.

CHANCEL SCREENS,

Altar Rails.

CORONÆ.

STANDARDS AND BRACKETS, FOR OIL & GAS.

TOMB RAILING.

Choir Standards.

Illustrations and Estimates on Receipt of Requirements, or Estimates to Architects' Designs.

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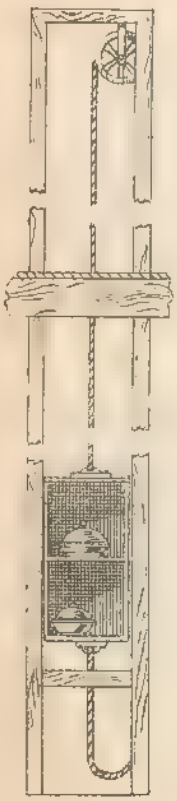
HAND POWER LUGGAGE, BOOK. AND DINNER LIFTS.



F 540

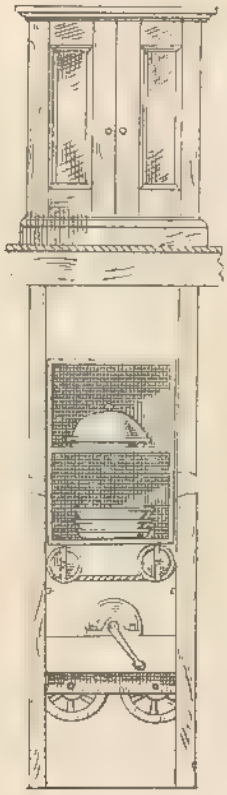
PARCEL OR CHOP LIFT,

suitable for Shops Luncheons Bars &c, complete and ready for erection, exclusive of enclosures.

Size of Box
wide deep high
16in 12in 24in

Price for total height of 17 feet.

£5 0 0



F 541.

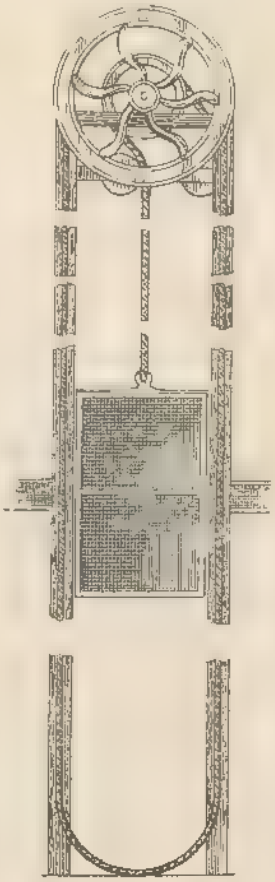
IMPROVED DINNER LIFT,

to work from below, suitable for Private Houses or small Hotels, will raise any load usually required and can rise under a sideboard or dresser

wide deep high
Size of Box 24in 16in 30in

Price, complete and ready for erection, exclusive of enclosures, for a total height of 14 feet

£10 0 0



F. 543

DINNER OR SMALL WAREHOUSE LIFT,

with overhead Gearing, to work with Endless Rope from any floor

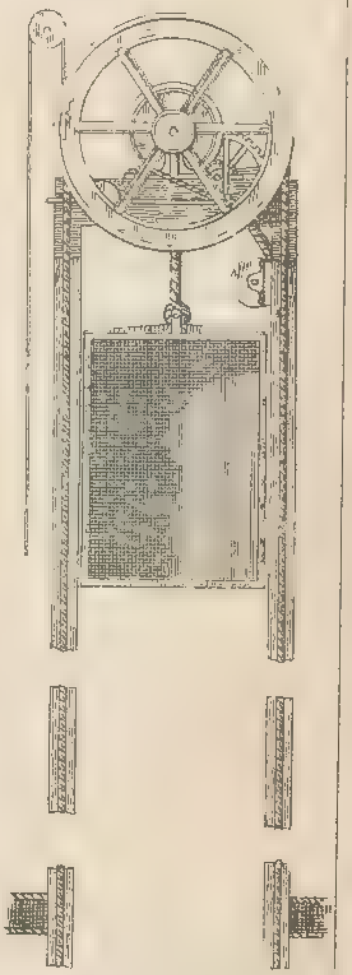
Price of ironwork only, to raise ½ cwt size of Box 24 × 18 × 36in. high, £5 15 0

Ditto, to raise 1 cwt, size of Box 27 × 21 × 39 in. high, with Brake, £7 10 0

Price, complete with Cage, Guides, Bearers, Ropes, etc for a total height of 30 feet from bottom floor to top of Rope Wheel,

To raise
½ cwt . £16 10 0
1 cwt, with Brake £19 0 0

If above this height, per foot extra for either size, 3s. per foot.



F 544

LUGGAGE LIFT,

with overhead Gearing to work with Endless Rope from any floor,

To raise 2 to 3 cwt high
Size of Cage 3ft × 2ft 9in × 4ft

Price of Ironwork only, inclusive Brake and Balance Weight, £11 10 0

Price, complete with Cage, Guides, Bearers, Ropes, &c, for a total height of 30 feet from bottom floor to top of Rope Wheel, £25 10 0

If above this height, 3s. 6d per foot extra

Discounts, also quotations for larger lifts on receipt of requirements

Should present prices of Iron be maintained it will be necessary to advance List prices.

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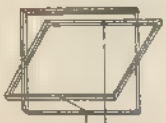
IMPROVED WROT IRON CASEMENTS.

No F 102 16/6
Brass Fastener and Stay 3/6 extra

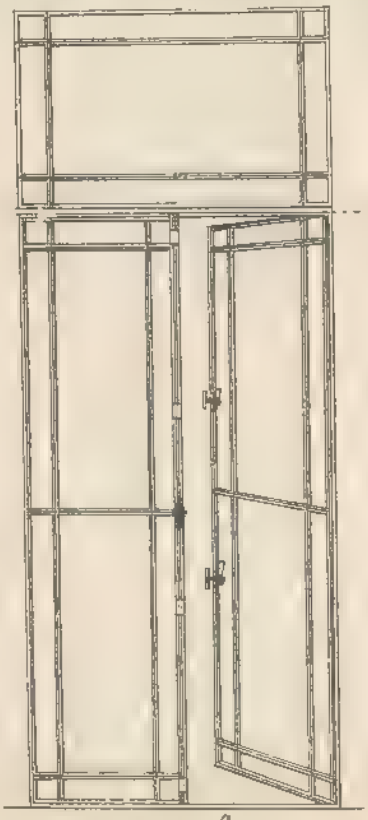
No F 103 17/6
Brass Fastener and Stay 3/6 extra

No F 104 23/
Brass Fastener and Stay 3/6 extra

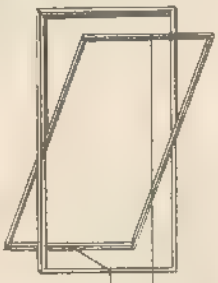
No F 105 26/
Brass Fastener and Stay 3/6 extra



No F 114 7/6



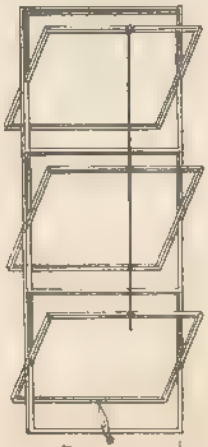
No F 123 £4.13.0



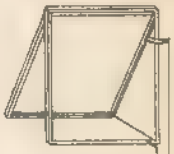
No F 108
10/6

No F 112
15/-

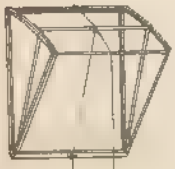
No F 116 15
11/6



No F 118 38/-



No F 119



No F 122 16/
For Sheet Glass or Leaded Work

No F 120 10/6

Above prices are to a scale of about ½-in. = 1-ft, but can be made to any dimensions Discounts and special prices for large quantities on receipt of specifications Full size sections of any of above will be sent on application When ordering Swing Casements, state No of pattern, sight size, position of glazing or tie bars, if any; if for sheet glass or leaded work, if glazing bars above or below, if open by cords or racks When ordering Hinged Casements, state No of pattern, outside measurement of frame, position of glazing or tie bars, if any, on which side to hang when inside room; and if for sheet glass or leaded work

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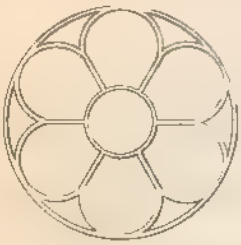
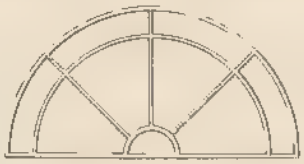
IMPROVED WROT IRON MITRE JOINT SASHES.



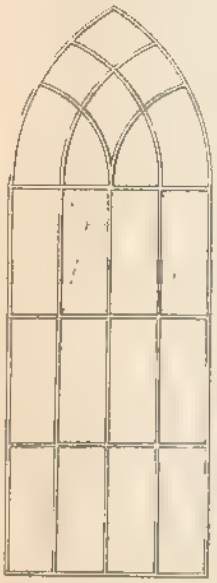
No F 128

No F 125

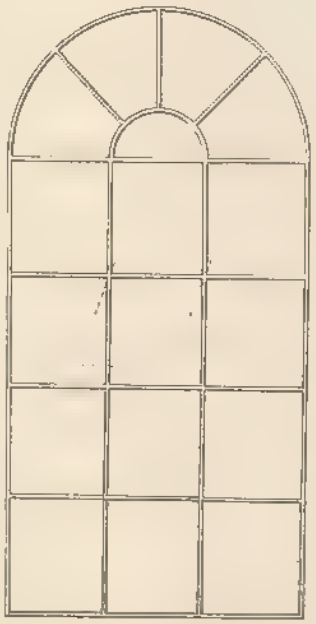


No F 126

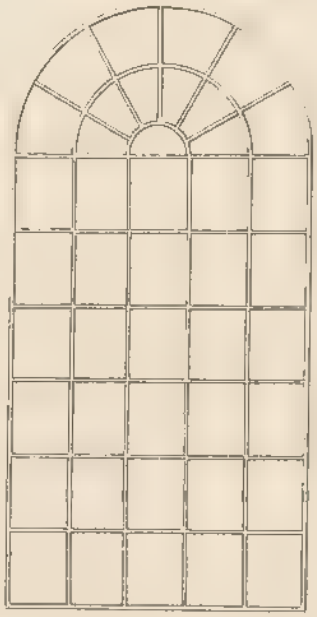
No F 129



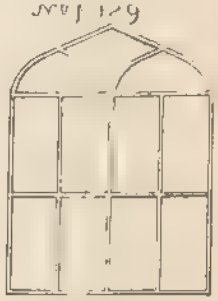
No F 132

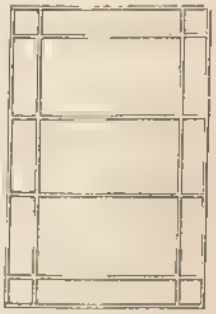


No F 133

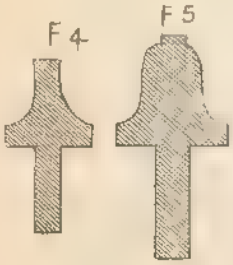


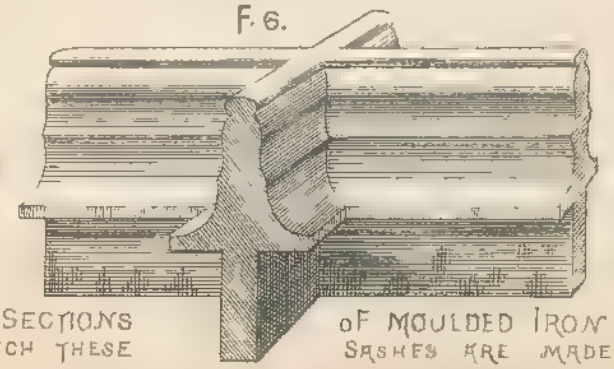
No F 134

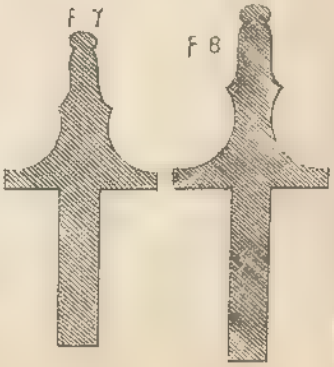




No F 137







FULL SIZE SECTIONS OF WHICH THESE OF MOULDED IRON SASHES ARE MADE

Prices vary from 6d to 2s 6d per foot super according to quantities, sizes, number of panes, section of iron, and design
Exact estimates sent on receipt of requirements.

These Sashes are in every way superior to cast iron being practically unbreakable, offer less obstruction to light, and are made to any design without cost of patterns Are light and portable for shipment, and require little packing

Dome Lights, Skylights and Conservatory Roofs made in same sections, illustrations on application

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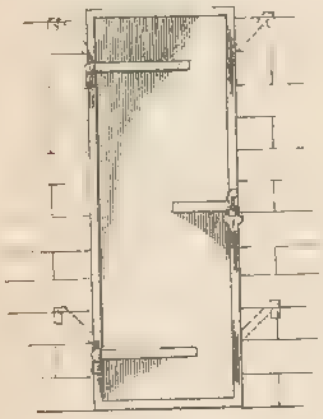
WROUGHT IRON INSURANCE AND WAREHOUSE DOORS.

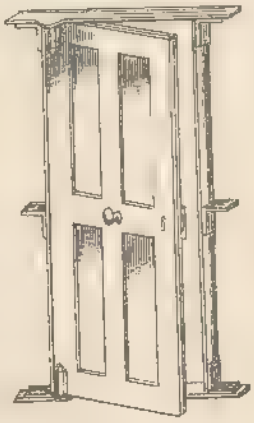


No F 188.

Closing on Angle Iron Frame, with Hasp or Bolt.

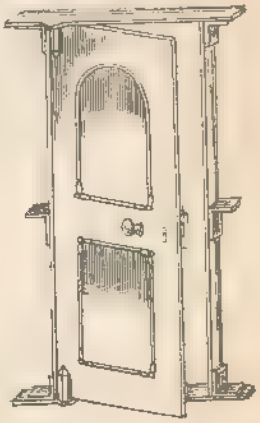
Door ½-in. thick.

6 0 × 2 0	£2 10 0
6 6 × 2 6	£3 0 0



No. F 192

	Panels ½-in. thick. Stiles ⅝-in. thick.	Panels ½-in. Stiles ⅝-in.
6 0 × 2 0	£4 0 0	£4 10 0
6 6 × 2 6	£4 11 6	£5 8 6
7 0 × 3 0	£5 2 6	£5 15 0



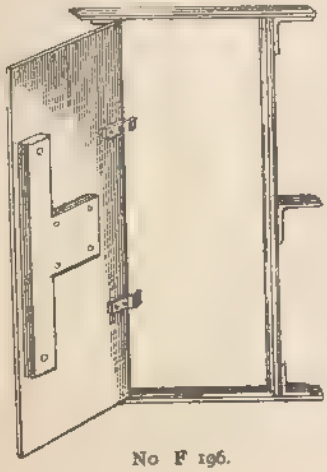
No. F 194

Solid Plates with Mouldings on Surface

	½-in. Plate	⅝-in Plate.
6 0 × 2 0	£5 15 0	£6 10 0
6 6 × 2 6	£6 10 0	£7 5 0
7 0 × 3 0	£7 10 0	£8 10 0

Prices of Nos F 192, 194 Doors include Two Bolts, or Strong ordinary Dead Lock. Extra for best Two-Lever Dead Lock, 7s.; Four-Lever ditto, 10s
Either of above patterns made double and to slide. Complete price list on application.

STRONG ROOM DOORS, VENTILATING GATES.

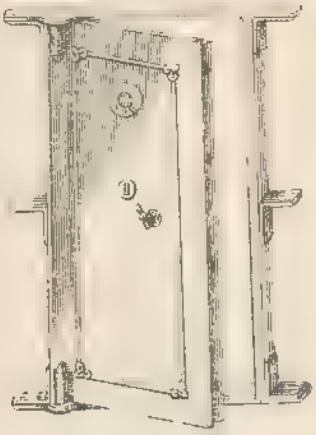


No F 196.

With Iron Handle throwing two bolts, secured by best powder-proof safe lock, protected by drill-proof plate. Front moulded as No. F 194 door

Thickness of Plate.

	½-in.	⅝-in.
6 0 × 2 0	£8 10 0	£9 5 0
6 0 × 2 6	£9 5 0	£10 0 0
6 0 × 3 0	£10 0 0	£10 15 0

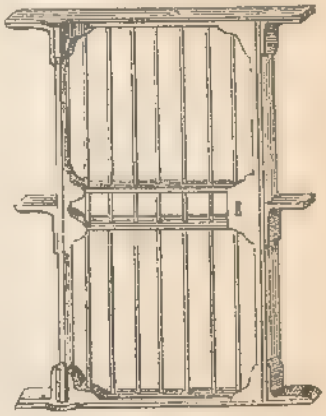


No. F 197.

With Brass Handle throwing four bolts, secured by best powder-proof lock, protected by drill-proof plate; four fixed back bolts or dogs on hinge side.

Thickness of Outer Plate.	With Lock casing full size of door, but without fire-proof chamber. ½-in.		If with fire-proof chamber in addition to lock chamber.
6 0 × 2 0	£13 0 0	...	£3 10 0 extra.
6 0 × 2 6	£14 0 0	...	£4 0 0 "
6 0 × 3 0	£15 0 0	..	£4 10 0 "

If plate ⅝-in. thick, 30s. extra.



No F 198

Fitted with best Brass Bolt Lever Dead Lock

		Extra strong and with Patent Lock
6 0 × 2 0	£6 0 0	£8 0 0
6 0 × 2 6	£6 10 0	£9 0 0
6 0 × 3 0	£7 0 0	£10 0 0

Discounts and special prices for large quantities on receipt of specification.

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Factory Established for over 100 years.

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All our Goods are really HAND-MADE!

Estimates given for Architects' own Designs. Special Designs and Illustrated Catalogues submitted on application.

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CANDLE, OIL, GAS, & ELECTRIC FITTINGS.
FIRING APPLIANCES.
RAILING WORK (every description).
DOOR FURNITURE.

HAT and UMBRELLA STANDS.
MIRROR and PHOTO. FRAMES.
NAME PLATES, WEATHER VANES, BELL DOMES and PULLS, etc., etc.

Please COMPARE our PRICES (in all cases 25% even 50% lower), DESIGNS, and EXECUTION with those of our competitors.

Opinions of the Press.

MESSRS. W. HÖFLER & Co., of Basinghall Street, E.C., have a representative exhibit, at the Ironmongers' Exhibition, of their beautiful artistic wrought iron work. A reference to the sample books of the firm will further show *the marvellous power of designing* possessed by the firm in the unlimited variety of charming articles delineated. The same articles are repeated again and again, no two alike, the variety in design being pushed far beyond what one would have thought possible in the staff of a single house of business. Every use that ornamental ironwork can serve has apparently been consulted. In addition to the application to artificial lighting of every kind, including table lamps, hall lamps, &c., are numberless objects to serve the most varied of useful ornamental purposes. Where all is excellent it would be hard to pick out individual articles for praise above any of the rest.—*Architect*, November 16th, 1888.

ARTISTIC WROUGHT IRON.—Great as has been the improvement in artistic taste of late it may yet be asked—Why are not the surroundings of everyday modern life more beautiful? In almost every street of every town there is a shop window where artistic fabrics and furniture are displayed, and it is hardly too much to say that no manufactured article has a chance of success without some pretensions to artistic merit, and if such pretensions were generally warranted by fact there would be no great harm in them.

Unfortunately, the markets are flooded with cheap manufactured goods, feebly imitative of work which could only be done by hand. An excessive craving for "pretty things" is stimulated by unhealthy production, and, instead of chastely adorning their homes, people fill them with cheap and spurious articles. It is, therefore, a pleasure to notice firms which endeavour to create a market for really artistic hand-made goods, produced by genuine craftsmen, and sold at prices which though necessarily somewhat higher than those of machine productions, are yet such as to be within reach of most. Such efforts have undoubtedly been made, none more successfully than by Messrs. W. Höfler & Co., of 10, Basinghall Street, London, E.C.

The revival of the long neglected art of decorative ironwork is not merely a passing craze or æsthetic fashion. Iron has always been, and probably always will be, the material which lends itself to the greatest number of appliances, whether purely artistic ornaments or articles of daily use, examples of which Messrs. W. Höfler & Co. display in the various branches of decorative ironwork at their showrooms, together with beautiful specimens of railings, gas, and electric fittings, &c. A profitable hour may be spent in inspecting the great variety of specimens of Messrs. W. Höfler & Co.'s artistic ironwork. The illustrative plate which is given with the present number of DECORATION AND ART-TRADES' REVIEW will at once enable our readers to appreciate the high standard of artistic form which has been successfully attained by this enterprising firm.—*Decoration and Art-Trades' Review*, December, 1888.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Artistic Wrought-Iron Work.

Chandeliers, Brackets, Hall Lamps, Table Lamps, Fenders, Fire Irons, Dogs, Gates, Railing, Chancel Screens, Hinges, &c.

Grilles for Shop Fronts.

Lamps, Verandahs and Covered Ways
for entrances to Public Buildings.

Gas Fittings. Electric Light Fittings.

Engravers of Memorial Brasses, Name Plates, &c.,
Sketches for the above free upon application.

Show Rooms: 17 & 18, Brownlow Street, Holborn, W.C.
Works: Red Lion Yard, Holborn, & The Midland Architectural Metal Works, Coventry.

RICHARDSON, ELLSON & Co.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Richardson, Ellson and Co.

Manufacturers

OF

Water-Tight

Casements

IN

Wrought Iron.

Illustrations and Price Lists upon application.

Special quotations for large quantities.

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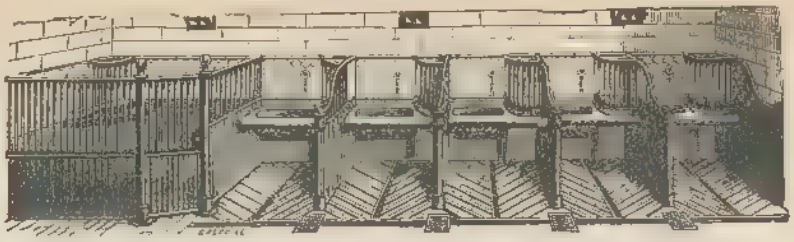


Patent Safety Stable Fittings, Stalls, Loose Boxes, Mangers.

PAVING, DRAINAGE, WALL TILES, WOODWORK.

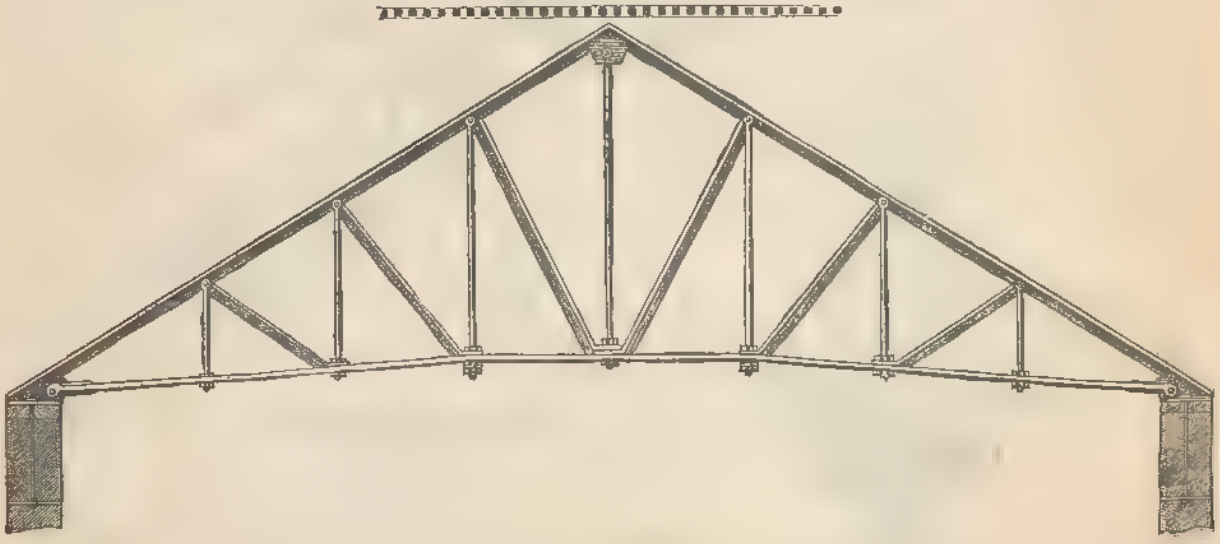
HARNESS ROOM AND COACH HOUSE FITTINGS,

As Supplied to H. M. THE QUEEN, and H. R. H. THE PRINCE OF WALES.

ST. PANCRAS IRON WORK COMPANY,

ST. PANCRAS ROAD, LONDON, N.W.

Telephone, No. 7519. Telegraphic Address: "EQUITATION, LONDON."



ROOFS, BRIDGES, SKYLIGHTS, CONSERVATORIES, PORCHES, COVERED WAYS, SPIRAL STAIRCASES, GATES, RAILINGS,

HEAVY OR LIGHT, PLAIN OR ORNAMENTAL WROUGHT & CAST IRON WORK IN GENERAL.

ESTIMATES + GIVEN.

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PRIZE MEDALLISTS INTERNATIONAL EXHIBITION, 1862.

ESTABLISHED 1850.

THOMAS THOMASON & COMPANY,

29 & 30, GRAHAM STREET, BIRMINGHAM; 76, CROSS STREET, MANCHESTER.

Manufacturers of

Ornamental Metal Work for Ecclesiastical & Architectural Purposes

IN WROUGHT IRON, BRASS, BRONZE, COPPER, OR SILVER.

GATES, RAILING, FINIALS, VANES, ORNAMENTAL HINGES, OR HINGE FRONTS, IRON MOUNTED LOCKS, HANDLES, BOLTS, GRILLES, DOG GRATES, TOMB RAILING, ALTAR RAILING, PULPITS IN BRASS, IRON, OR WOOD, FONT COVERS IN WOOD, WITH WROUGHT OR MALLEABLE IRON MOUNTS.

MANUFACTURERS OF LIGHTNING CONDUCTORS,

EITHER CABLE OR TAPE, & SUPPLIED EITHER WITH INSULATORS OR STAPLES

GAS OR ELECTRICAL FITTINGS

To suit any Architectural Style,

MADE IN WROUGHT IRON, DECORATED, OR POLISHED BRASS.

FOR PUBLIC BUILDINGS, CHURCHES, CHAPELS, OR MISSION ROOMS; ALSO FOR DOMESTIC USE.

CHOIR STALLS, VESTRY FITTINGS, CHURCH SEATING, OAK LECTERNS,

Or any article of Church Furniture in Wood, either Carved or Plain.

STAINED GLASS FOR MEMORIAL WINDOWS,

OR FOR DOMESTIC USE.

MEMORIAL BRASSES CUT AND ENGRAVED IN ANY STYLE OF LETTER WITH OR WITHOUT ARMORIAL BEARINGS.

CASEMENTS, VENTILATORS, AND WINDOW FRAMES,

IN WROUGHT IRON, COPPER, OR GUN METAL,

Are a SPECIAL FEATURE in our Manufactory, and a Large Outlay has been made in preparing Tools and Machinery for their ready production.

MESSRS. THOMASON & CO. will be pleased to send Designs and Estimates of any article they Manufacture, on receipt of application, or to carry out Architects' Designs, their long experience and great facilities giving them special advantages in this respect.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NOTES REFERRING TO GOODS IN THIS SECTION.

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Telegraphic Address, "Szerelmey, London."

MOWBRAY HOUSE,

VICTORIA EMBANKMENT, LONDON, W.C.

WATERPROOFING MASONRY,

AND

PRESERVING IT FROM DECAY.

The importance of finding a **reliable** material for Waterproofing Masonry is universally appreciated.

No testimony to the efficacy of such a material is complete unless it takes into account **the time during which the effect has continued**.

A Series of Reports, kindly furnished by purchasers of the material they report upon, are offered as evidence that SZERELMEY STONE LIQUID **is reliable**. They nearly all relate to cases *upwards of ten years old*; some of them are much older. They include representative cases of most kinds of Stone, Brick, Stucco, Cement, Concrete, Plaster, and other Materials which have been cured of DAMP, DISCOLOURATION, DECAY, CHIPPING, SCALING, and other evils by simply treating them with

SZERELMEY STONE LIQUID.

The following are the headings only of some of these reports. Complete copies, with all particulars, may be had free from the address above:—

CASE A.

Freestone Houses, near the sea, were wet through from winter rains and required re-papering every year. Treated with **SZERELMEY STONE LIQUID**, they have been **KEPT DRY FOR OVER TWELVE YEARS**, and have not required re-papering.

CASE C.

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A Brick House coated with Portland Cement was almost uninhabitable from the penetration of rain. By treating it with **SZERELMEY STONE LIQUID**, it has been rendered perfectly **DRY FOR OVER ELEVEN YEARS**.

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A Concrete Water Tank was porous; treated with **SZERELMEY STONE LIQUID** it became **"AS TIGHT AS A BOTTLE."**

PRICE, in London. Forty Gallon Casks, £12 each, *i.e.*, at the rate of 6/- per Gallon. Five Gallon Drums, £1 15s. each, *i.e.*, at the rate of 7s. per Gallon. *Packages included.*

Each gallon is sufficient on an average to treat twenty five square yards.

CONTRACT DEPARTMENT.—*Messrs. SZERELMEY & CO. are prepared to contract for the treatment of Buildings, for the purpose of waterproofing them and preserving the masonry from decay.*

SZERELMEY IRON PAINT.

THE MOST DURABLE PAINT KNOWN.

A similar series of Reports may be had showing cases where **Szerelmey Iron Paint** has lasted on outdoor work for long periods (up to **seventeen years**). It is made in all colours, and both for indoor and outdoor work. The outdoor paints have been successfully used for nearly forty years.

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From the collections of Sydney Living Museums / Historic Houses Trust of NSW

DURESCO.

Non-Poisonous.
Powerful Body.
Durable.
Beautiful Colours.
Damp Proof.
A Perfect Flat.
Without Smell.

THE IMPROVED WASHABLE DISTEMPER PAINT.

Cheaper than Oil Paint.
Cheaper than Wall Paper.
For Portland Cement before Painting,
Stops Suction.
In all Shades.
Colour Unchangeable.
Won't Rub.

THE ONLY REAL SANITARY PAINT.

TWO COATS CAN BE APPLIED IN ONE DAY.

FOR OUTSIDE & INSIDE WORK.

IS NOW IN USE AT THE FOLLOWING PLACES:—

House of Commons
War Office
The Royal Mews
Fire Brigade Depots
Dover House, Whitehall
General Post Office

British Museum
New Law Courts
Woolwich Arsenal
Savoy Mansions Hotel
Bow Street Police Court
Board Schools

Postal Depot (the Old Prison), Clerkenwell
Southwark & Vauxhall Water Company
Kent Waterworks Company
Derby County Asylum
South Yorkshire Asylum
Metropolitan District Asylums

Apply for the Company's NEW Beautiful Colour Sheet.

PETRIFYING LIQUID

TWO COATS WILL PRESERVE STONE OR OTHER SURFACES FROM DECAY & ARREST DAMPNESS.

FAMOUS AS A CLAIRCOLLE ON NEW PLASTER, CEMENT, AND OTHER POROUS SURFACES.
COLOURLESS AND DAMP RESISTING.

THE FINEST PRIMING FOR DURESCO OR OIL PAINT.

ENAMEL PAINT.

The Original Makers. Glossy, Durable, Quick Drying. One Coat equal to Two of Ordinary Paint. Will not Crack or Blister.

SILICATE PAINTS.

Non-Poisonous, Powerful Body, Hard Drying, Anti-Corrosive, for Outside or Inside Work. Have no Offensive Odour. Permanent in Colour.

MANUFACTURERS AND PATENTEES:

SILICATE PAINT COMPANY,

J. B. ORR & CO., Limited, Proprietors,

CHARLTON, LONDON, S.E., and 46, CANNON STREET, E.C.

Telegraphic Address, "ORR, LONDON." Telephone No. 8,036.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

"DURESCO."

THE IMPROVED WASHABLE DISTEMPER

(NON-POISONOUS).

Possesses enormous covering power or body. Much more durable than Oil Paint, even on the most exposed situation. Unsurpassed for interior decoration, either for plain distempering or artistic treatment. Dries with a perfect flat, uniform surface, entirely non-absorbent. **Much Cheaper** than Wall Paper or Oil Paint. Destroys Fever Germs and prevents Vermin.

Duresco is unexcelled for the treatment of—

WALLS OF COTTAGES,
AREAS AND BASEMENTS,
KITCHENS, BEDROOMS,
STAIRCASES AND PASSAGES,
WALLS AND CEILINGS OF HOSPITALS,
BOARD SCHOOLS,
WORKHOUSES,
ASYLUMS, &c., &c.,

And all PUBLIC BUILDINGS, for OUTSIDE and INSIDE WORK.

THE ONLY RELIABLE DAMP RESISTANT.

Duresco is specified by all the leading Architects, and is used at the—

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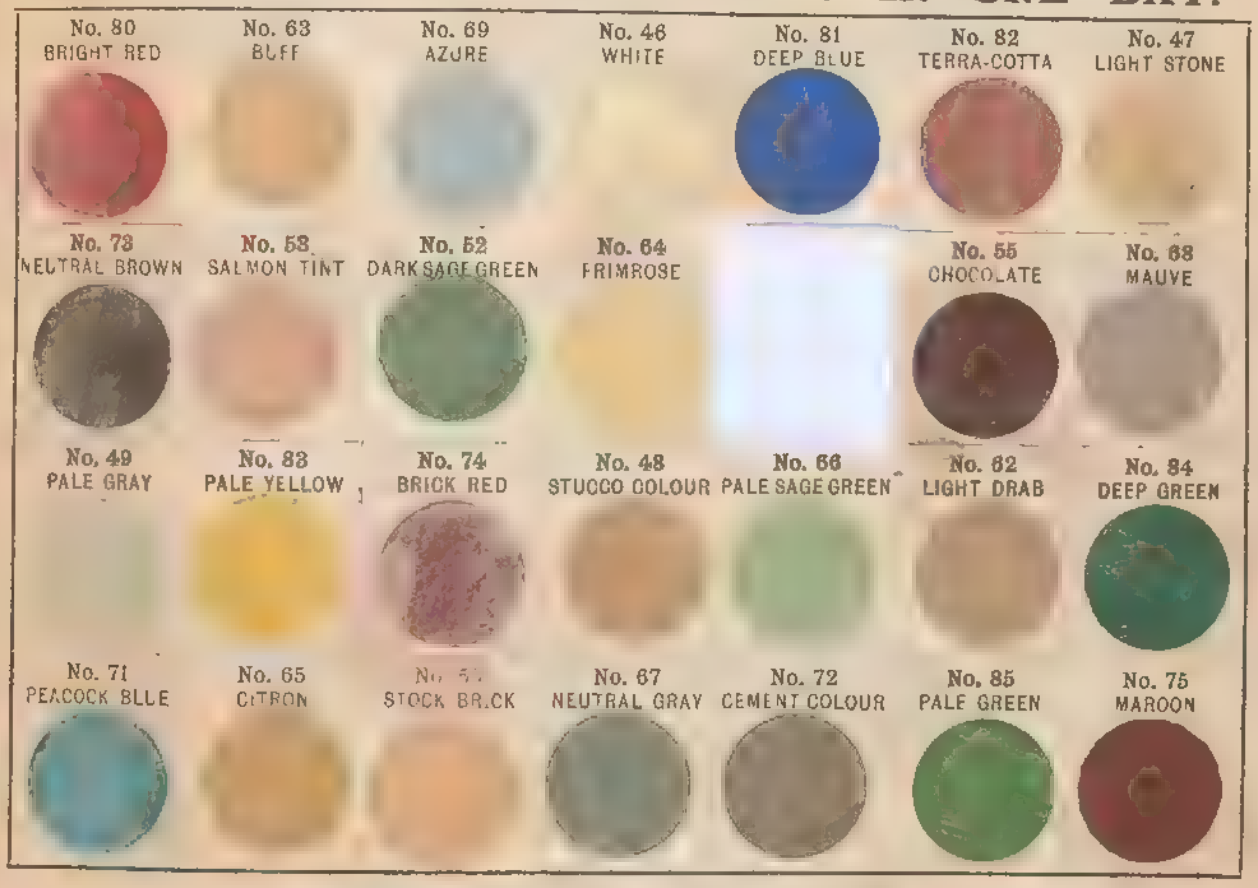
HOUSE OF COMMONS,
LAW COURTS, LONDON,
NEW LAW COURTS, NOTTINGHAM,
FIRE BRIGADE DEPOTS,
HORSE GUARDS
PRESTWICK COUNTY ASYLUM.
DERBY Do. Do
METROPOLITAN DISTRICT ASYLUMS,
NEW COURT, LINCOLN'S INN,
WEST RIDING ASYLUM, WAKEFIELD,
SOUTH YORKSHIRE ASYLUM, SHEFFIELD.

AND HUNDREDS OF OTHER LARGE PUBLIC BUILDINGS

IN ENGLAND, THE UNITED STATES, AND ON THE CONTINENT.

TWO COATS CAN BE APPLIED IN ONE DAY.



DIRECTIONS FOR USE.

Thin down the paste Duresco with tepid water to the consistency of thick cream. Allow it to stand till cool. Apply with ordinary distemper brushes. Stipple if a fine finish is required. Tint with ordinary colours. Touch up discoloured parts. One coat of Duresco on porous bricks or compo makes the best foundation for Enamel or Silicate Paint.

For further Particulars apply to

THE SILICATE PAINT COMPANY

(J. B. ORR & CO., Ltd., Proprietors),

46, CANNON STREET, LONDON, E.C., AND CHARLTON, LONDON, S.E.

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ENAMEL PAINT

READY FOR USE.

Surface like Porcelain. Beautiful Colours.

LUSTROUS, ARTISTIC, DURABLE.

COVERING POWER DOUBLE THAT OF ORDINARY PAINT.

QUICK DRYING. WILL NOT CRACK OR BLISTER.

FINEST QUALITY GUARANTEED.

FOR INSIDE OR OUTSIDE USE. CAN BE USED OVER ANY KIND OF PAINT.

In addition to the foregoing advantages of this paint, over ordinary paints, it possesses the following merits and valuable qualities:—

It is the only paint that can be successfully applied over Tar, Black Varnish, or Felt.
It may be applied over any other description of paint, and any other kind of paint may be used over it.
Surfaces coated with it possess all the advantages for which glazed tiles are valued, at one-twentieth their cost
It dries with a hard, impervious surface, as washable as a piece of porcelain.
It is supplied ready mixed for laying on, and is applied exactly as ordinary paints are used.
Cold water—which softens all other compositions—hardens the enamel.
It can be applied by any ordinary labourer.
One coat of Enamel is equal to one coat of common paint and one coat of varnish.

SILI[illegible]TE PAINT

(FOR [illegible]E AND INSIDE WORK).

The objections to the ordinary le[illegible] the house painter, are not only that they are **poisonous**, of **offensive odour**, and suffer **decomposition**, [illegible]on in the presence of foul air, but that when used to protect outdoor work from extreme atmospheric influences, they do not effectually answer this purpose, for they either speedily **crack, blister,** and **peel away**, or, becoming **disintegrated**, are washed from the surface they were intended to preserve.

Yet, notwithstanding these defects, lead paints continue to be used, for the simple reason that all hitherto suggested substitutes have been **deficient in body**, by which standard all paints are judged and valued. As, however, the **Charlton Silicate Paint** has **greater covering body**, and is **superior in durability** to the best Lead Paints, the only reason for using these and other pigments ceases to have effect.

Ground in refined oil to the condition of great smoothness, and admitting of the highest artistic treatment and finish, it is a splendid paint for the decoration of **Dining Rooms, Drawing Rooms, Public Buildings, Ship Saloons,** and **Interior Work** of every description. Being **of great density, permanent in colour, extremely durable,** and **free from** liability to crack or blister, the **Charlton Silicate Paints** are the best and most enduring preparation manufactured for **House** and **Ship Painting,** and **outside work** of all kinds, including **Hothouses, Vineries,** and other structures exposed to the heat or cold in any climate. Its truly Anti corrosive properties and absence of any galvanic action with the metals, peculiarly fits it for painting ironwork of all kinds, including **Bridges, Girders, Columns, Water Tanks, Gasometers,** and for the protection of property of all kinds exposed to the noxious emanations from **Gas Factories, Chemical Works, Sugar Refineries, &c.,** so destructive to Lead Paints. While for **Marine Residences, Piers, Harbour Works, Lighthouses, Iron Ships, Masts and Yards, Buoys, Beacons,** and all **Marine purposes,** its unequalled being unaffected by the salt water or the sea air.

SURFACE COVERED.

The surface covered by the **Silicate Paint** may, as a rule, be safely calculated at **30 per cent.** in excess of that coated by an equal weight of lead paint.

THE SILICATE PAINT COMPANY

(J. B. ORR & CO., Ltd., Proprietors),

46, CANNON STREET, LONDON, E.C., AND CHARLTON, LONDON, S.E.

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THE

COMPLETE CATALOGUE.

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L—SANITARY MANUFACTURES.

NOTES REFERRING TO GOODS IN THIS SECTION.

J. & W. KIRKWOOD, Zinc Bath Manufacturers,

236, LEITH WALK, LEITH. N.B.

POLISHED ✦ PLATE ZINC BATHS.

POLISHED ✦ PLATE ZINC BATHS.

The Zinc of which these Baths are made is a pure metal, and possesses the valuable property of not rusting. They can be cleansed and scrubbed as every bath ought to be—without any fear of injury, as there is no enamel, paint, or varnish to scratch, crack, and blister, or be dissolved by the action of soap A rub with whiting speedily removes every particle of grease, and keeps them clean and bright

There are over 20,000 in Scotland, and as a proof of their durability, many of them have been in use over 40 years.

Iron Baths rust because of [illegible] of Soap on paint. Soap is [illegible] per cent Soda or Potash Soda and Potash dissolve all Paints, Varnishes, &c. *Write for Prices*

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

L SANITARY MANUFACTURES.

Telephone No. 7048

BROAD & CO.,

Telegraphic Address BROAD & Co LONDON

NUMEROUS MEDALS AND CERTIFICATES HAVE BEEN AWARDED.

ALL PRICES HEREIN QUOTED ARE LIABLE TO ALTERATION WITHOUT NOTICE.

BRICKMAKERS, SANITARY SPECIALISTS

LIME, CEMENT, SLATE, TILE, & GRAVEL MERCHANTS

SUPPLEMENTARY

CATALOGUE OF SANITARY APPLIANCES.

[illegible] Specialities are largely used in [illegible] and Public Sanitary [illegible]

A DESIDERATUM.

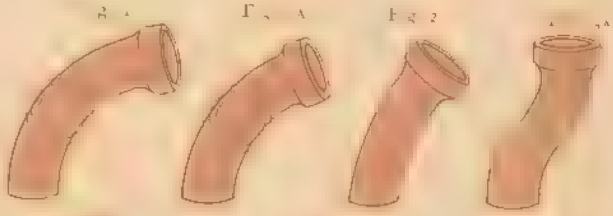
BROAD & CO.'S NON-PERCOLATING DRAIN PIPES (CANE COLOUR)

(THESE PIPES ARE NOW IN COURSE OF MANUFACTURE.

STRAIGHT PIPE.

[illegible]

BENDS.



4 inch .. 2/3 each
6 " .. 2/8 "

Bends with Inspection Hole [illegible]

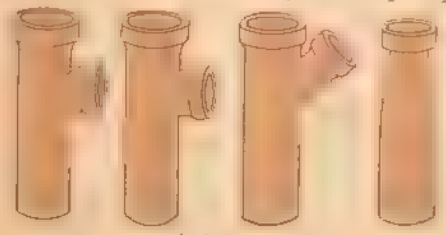
TAPER BENDS

Fig. 1 Fig. 1A

[illegible]

SINGLE JUNCTIONS.

Fig 4 Fig. 5. Fig 6. Taper Pipe.



4 inch .. 2/6.
6 " .. 3/-.

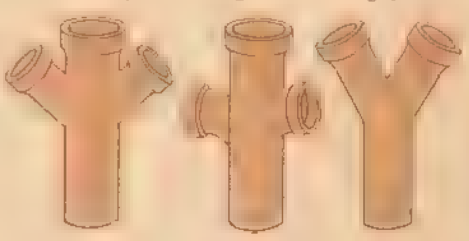
INSPECTION JUNCTION.

Fig 29

4 inch .. 5/-
6 " .. 6/-

DOUBLE JUNCTIONS.

Fig. 7 Fig. 8. Fig 9.



4 inch .. 3/6.
6 " .. 4/6.

STANFORD'S JOINTS MADE ON THE PREMISES.

Brown Stoneware Goods of all kinds kept in Stock.

ALL CARRIAGE AT RISK OF PURCHASER.

2 & 4. SOUTH WHARF PADDINGTON. LONDON. W.

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L -SANITARY MANUFACTURES.

Telephone No. 7048

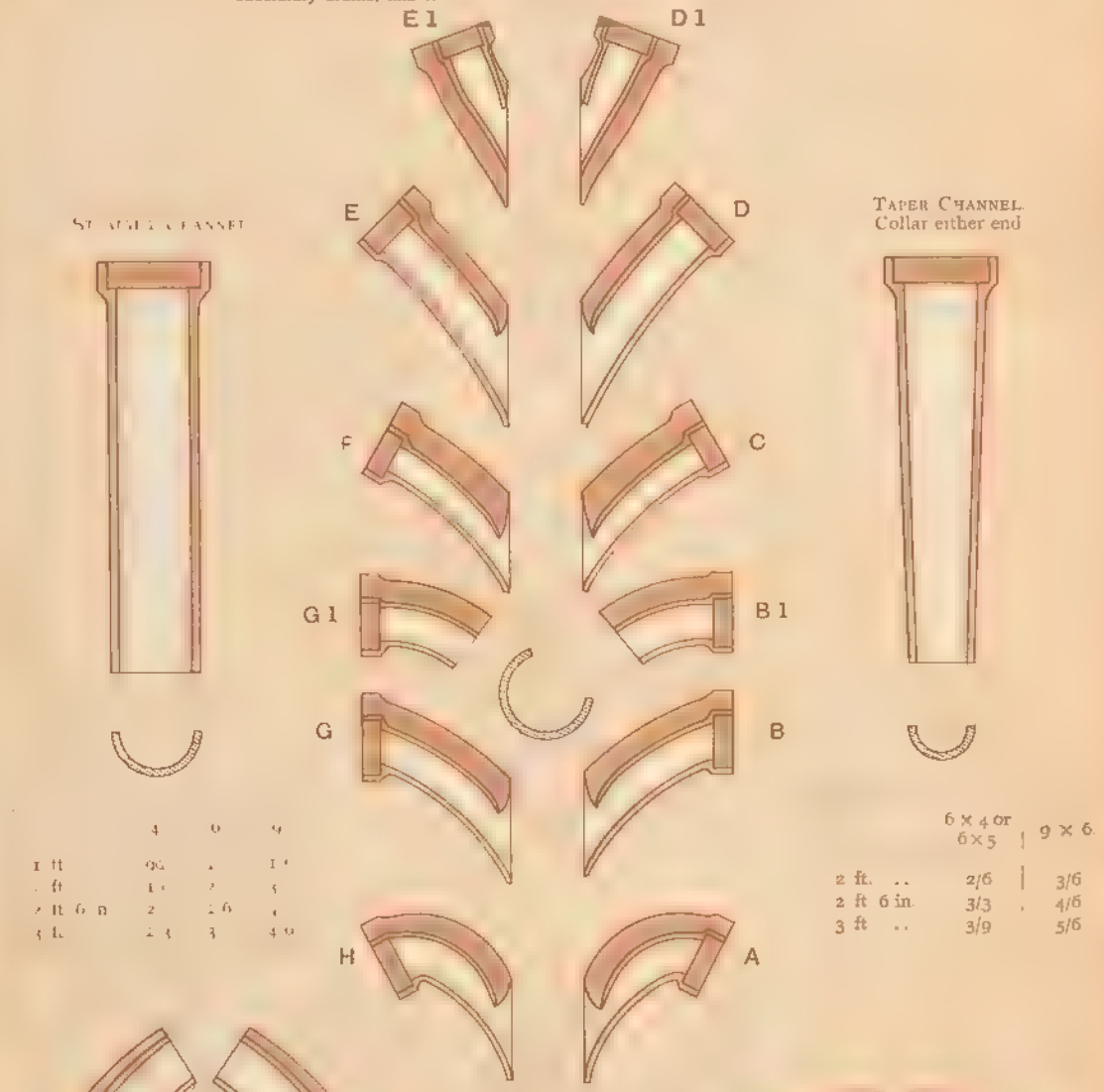
BROAD & CO.,

Telegraphic Address "BROAD & Co. LONDON"

Broad & Co.'s Patent Channel Bends,

IN WHITE ENAMELLED STONE WARE.

These Channel Bends are specially designed and modelled to prevent the oversplashing of sewage from the subsidiary drains, and to direct and accelerate the flow down the main drain.



TO FACILITATE DELIVERY PLANS SHOULD BE SENT WITH ORDERS.

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L SANITARY MANUFACTURES.

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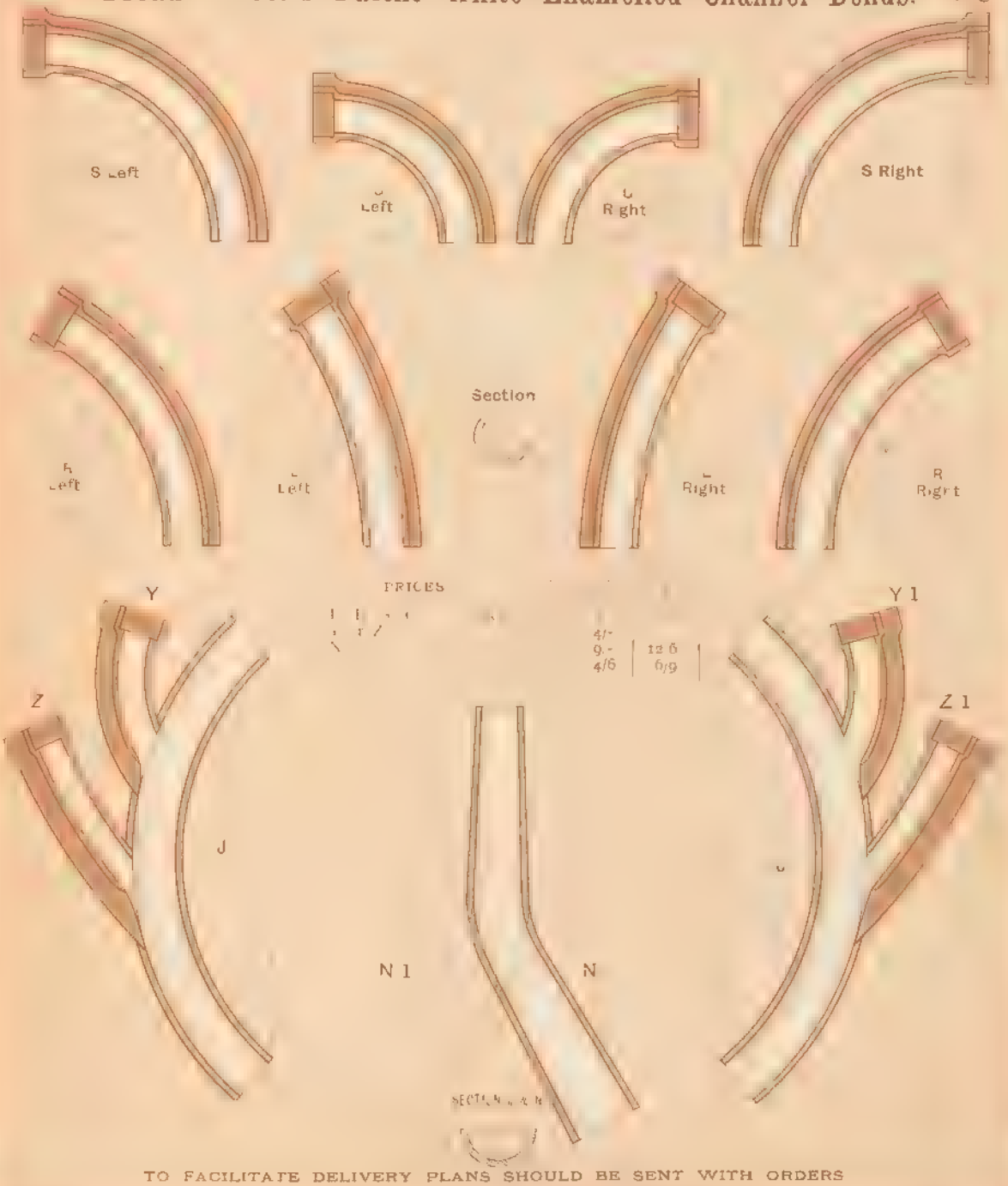
BROAD & CO.,

Telegraphic Address BROAD & Co LONDON

Broad & Co.'s Patent White Enamelled Channel Bends.



TO FACILITATE DELIVERY PLANS SHOULD BE SENT WITH ORDERS
ALL CARRIAGE AT RISK OF PURCHASER
CRATES AND CASES CHARGED FOR AND CREDITED AT HALF PRICE

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BROAD & CO.,

Telegraphic Address BROAD & Co. LONDON

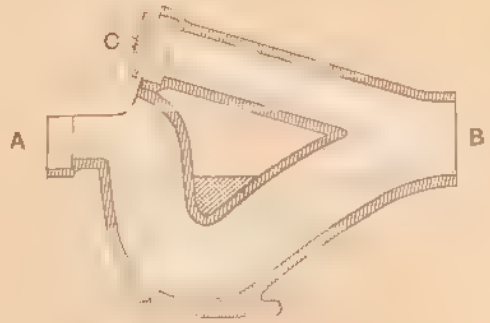
"THE MOST PERFECT INTERCEPTOR."

Broad & Co.'s Channel Interceptor.

(Fig. 37 B.)

PRICE IN BROWN WARE.

4" throughout	7/-
6"	10/
9"	12/6
6" taper to 5"	8/6
9" " 6"	12/6



PRICE IN WHITE ENAMEL.

4" throughout	10/6
6" "	
9" "	
6" taper to	
9"	

DESIGNED EXPRESSLY FOR INSPECTION CHAMBERS.

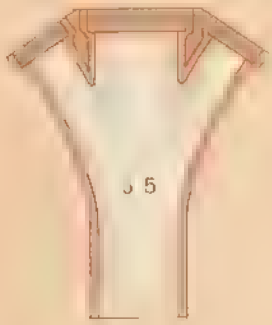
This Interceptor is now so well known, and its advantages so apparent, as to need no special recommendation

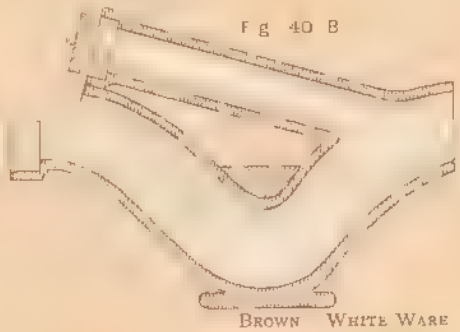
VERTICAL DROP. EASY OUTGO.—WATER SEAL of 3in.

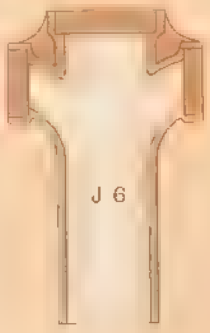
Fall of 2in. in Level, from Intake A to Outgo B. C, Inspection Cap with Stanford Joint.

In ordering Goods made in White Enamel and Brown Ware, it should be clearly stated if "Brown" or "White" is required

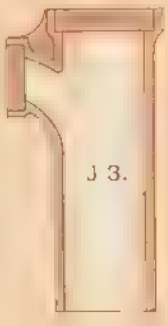
EASY FLUSH INTERCEPTOR.







	Brown	White Ware
4" throughout	7/-	10/6
6" "	10/-	15/



SECTION OF JUNCTIONS.

	4"	6"	9"
J 1 2 3 and 4		6	10
J 5 and 6	6/6	7/6	12/6

STOCK SIZES OF THESE JUNCTIONS, 4 x 4, 6 x 4, 6 x 6 & 9 x 6

2 & 4. SOUTH WHARF PADDINGTON. LONDON. W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telephone No. 7048

BROAD & CO.,

Telegraphic Address "BROAD & Co. LONDON"

BROAD & CO.'S

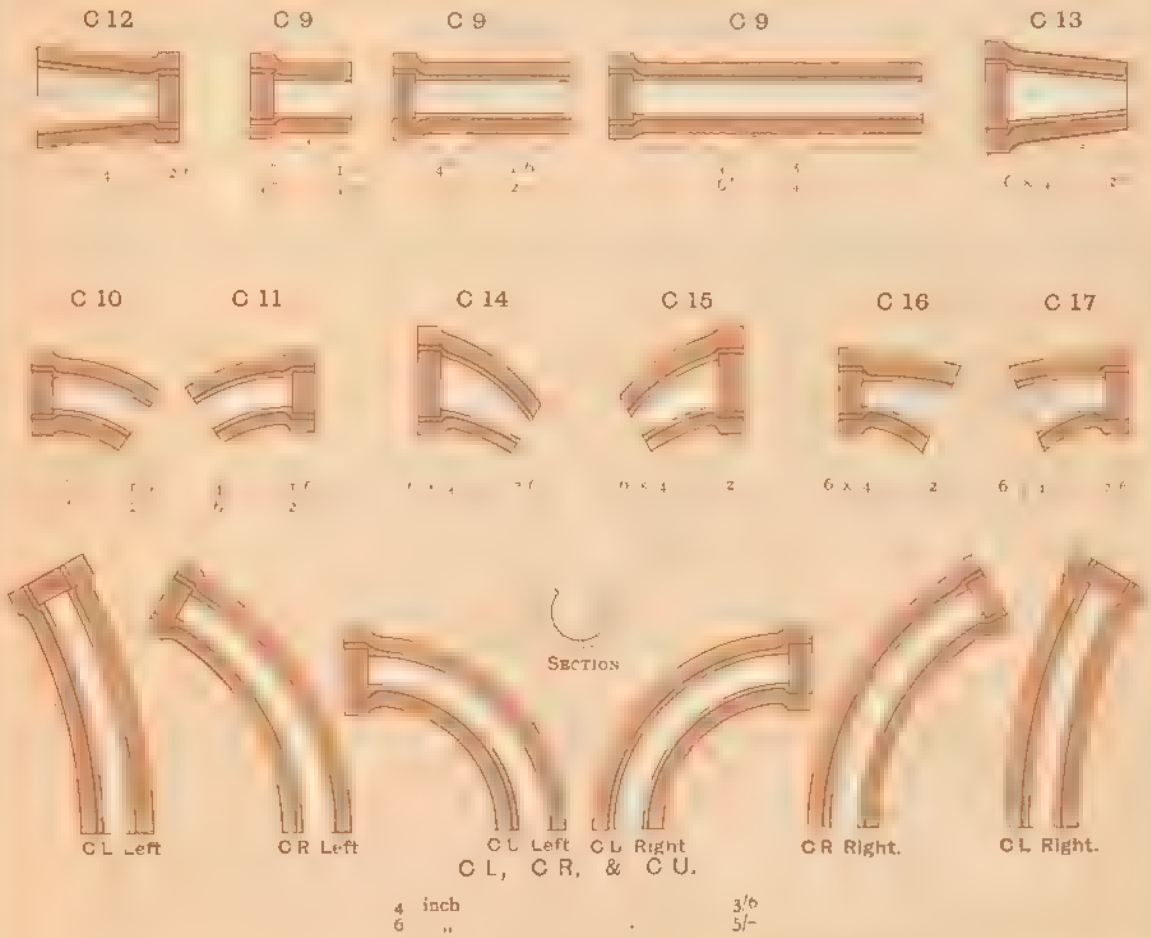
Patent White Enamelled Channels.

SERIES C (¾ Section).

The Bends and Junctions (Series C) have been designed to meet the difficulty of arranging irregular subsidiary connections in Manholes, and it will be found that, by using the short Bends, &c., almost any radius can be obtained. Further advantages are gained in preserving the ¾ Section throughout and saving the 3" in fall, necessitated by the branch drain delivering *over* the centre channel.

Architects' special designs will be carefully made to order

TO FACILITATE DELIVERY PLANS SHOULD BE SENT WITH ORDERS.



4 inch . 3/6
6 " . 5/-

SANITARY SPECIALITIES OF ALL KINDS KEPT IN STOCK.

Crates and Cases credited at half price.

2 & 4. SOUTH WHARF PADDINGTON . LONDON . W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

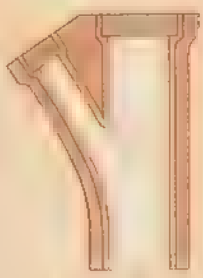
Telephone No. 7048

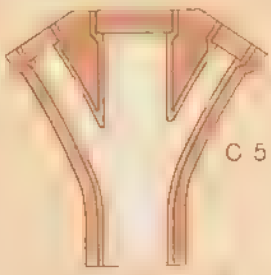
BROAD & CO.,

Telegraphic Address BROAD & Co LONDON

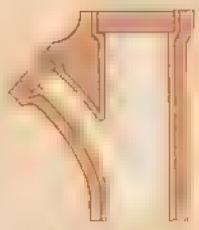
BROAD & CO.'S
Patent White Enamelled Channel Bends.

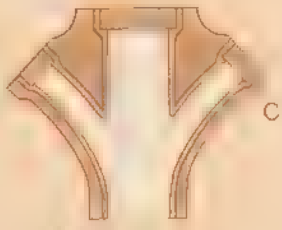
SERIES C. Continued.

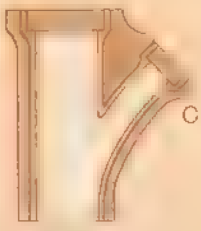

C 4

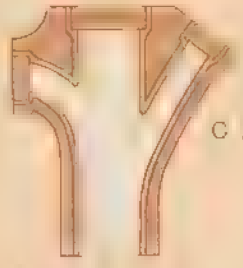

C 5

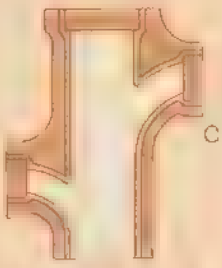
C 1

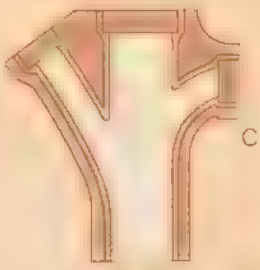

C 19


C 20


C 18


C 7


C C.


C 8

C 3

C 21

C 2

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telephone No. 7048

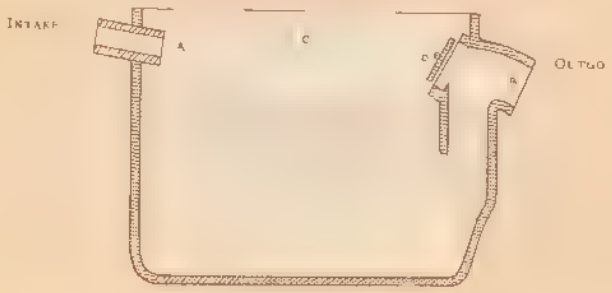
BROAD & CO.,

Telegraphic Address "BROAD & Co. LONDON"

Broad's "Excello" Grease Trap,

Designed to give the maximum of capacity with a minimum of obstruction.

MADE IN WHITE ENAMELLED STONEWARE



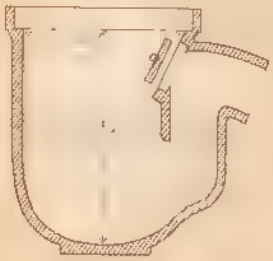
A Inlet to take 4" Lead, or 3" Stoneware Pipe, which may be brought through and turned down to deliver under water level

B. 4" Outlet.

C Auxiliary Inlet partially cut through can be tapped out if required

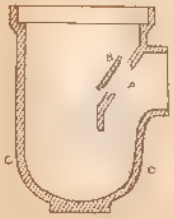
D. Inspection Cap, with Stanford Joint.

30" × 18" × 24" inside	85/	each.
18" × 12" × 20" "	40/	"
8 × 1 × 20" Brown ware	25	

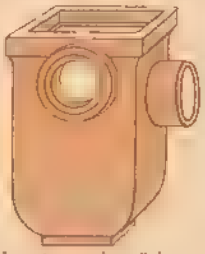


	WHITE.	BROWN
FIG. 3 "EXCELLO," 3 inlets partially cut through .	21/- ..	12/6
Dish Stone with 6" Galvanised Grid	4/6	3/6
Plain Stone for Sealing, unglazed	1/6.	

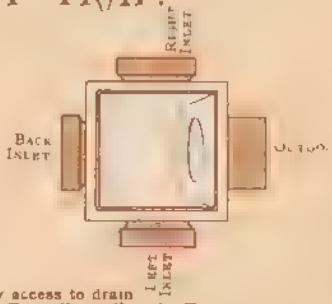
BROAD'S PATENT GULLEY TRAP.



SECTION.



18" diameter inside, 15" deep.



A A Inspection Inlet, enabling Trap to be easily cleansed, also forming ready access to drain
B B, Cap for Insertion into Socket A A, fixed with Plastic Composition, and effectually sealing the Trap.
The Trap is made square to point C C, then easily curved, all angles being avoided, thus ensuring an easy flush

PRICE. (Including Galvanised Iron Grid)			
Drab Stoneware	10/- each.	Inlets, 8d. each inlet extra.
White Enamel	12/6 "	

A larger size of this pattern is kept in stock, 12" diameter inside, 25" deep, price 25/-

NOTE.—Inlets to Gulley Traps are taken as looking UP a drain

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L SANITARY MANUFACTURES

Telephone No. 7048

BROAD & CO.,

Telegraphic Address 'BROAD & Co LONDON'

Yard Gullies.

(Inlets to Gullies are taken rights or lefts looking UP *a drain.)*

SECTION

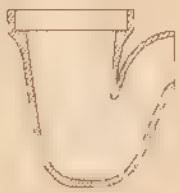
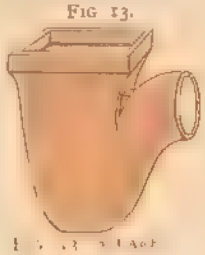
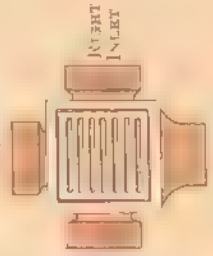


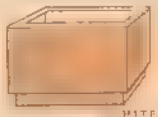
FIG 13.





GULLEY TOPS

FOR DEEPENING FIG. 13

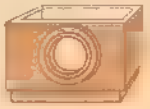


Inside A. F.	Size Outlet	Fig. Brown	Fig. Enamel	Stoneware	Iron	Galvsd
6×6	4 "	3/6	6/6	6d.	1/-	1/6
9×9	4 "	5/3	8/6	9d.	1/6	2/-

INLETS 1/- EACH EXTRA.

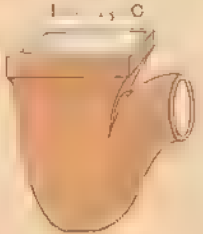
GULLEY TOP

WITH INLET (4")



WHITE BROWN.
4/6 3/6

FIG. 13 C



WITHOUT REBATES OR INLETS.

	6in.	9in.
DRAB	5/-	—
WHITE ENAMEL	6/6	8/6

FIG. 13 D

WITH 4" INLET

6in. inside at top.

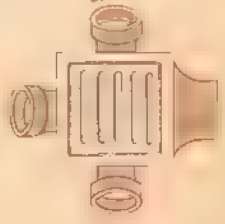
BROWN		5/-
WHITE		7/6

FIG. 13 E

WITH 2" INLET

	6in.	9in.
BROWN	5/-	6/6
WHITE	7/6	10/-

FIG. 13, E. PLAN



EXTRA INLETS 1/- EACH

Dean's Grease Trap.

SINGLE TRAP

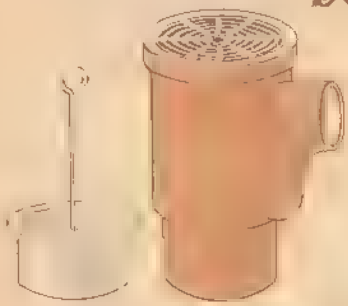


Fig 2

RADIATING BRICKS

SINGLE TRAP, WITH BACK INLET.

SECTION

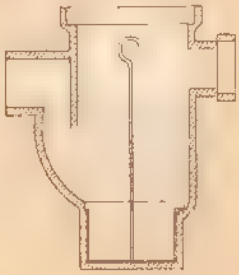


Fig 3

PRICE

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

2 & 4. SOUTH WHARF PADDINGTON. LONDON. W.

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L—SANITARY MANUFACTURES.

Telephone No. 7048

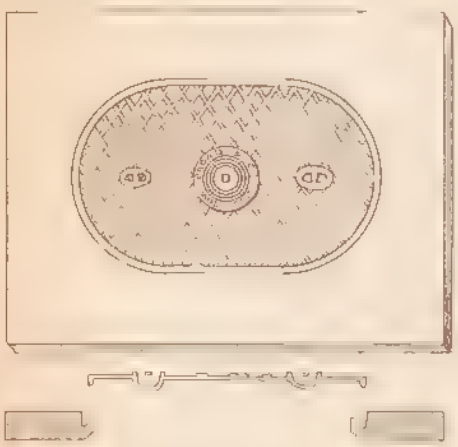
BROAD & CO.,

Telegraphic Address BROAD & Co. LONDON

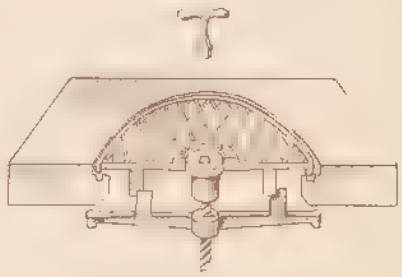
Broad & Co.'s Improved Manhole Cover.

AS USED BY H.M. GOVERNMENT.

CAN BE EFFECTUALLY SEALED IF REQUIRED WITH BROAD & CO'S PLASTIC COMPOSITION



IMPROVED LOCKING GEAR.



(Patent applied for)

The Groove having been filled with Plastic Compo the Cover is placed in the Frame and the Crossbar turned into position and screwed home.

	Large Size Frame 40" × [illegible]" Cover 26" × 17"	Small Size Frame [illegible]" × 24" Cover 18" × 12"	[illegible]
Improved Concrete Frame and Iron Cover	25/-	[illegible]	
York Stone [illegible] Cover ..	30/-	21/-	
[illegible] extra ..	5/-	3/6	York do. [illegible]

BROAD & CO.'S

AIR-TIGHT MANHOLE COVER.

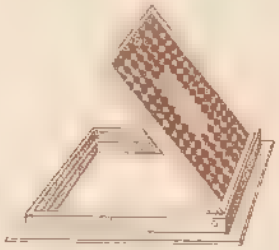
WITH RUBBER JOINTS & KEY TO LOCK (SCREW).

MICA VALVE AIR INLET.

GALVANISED CAST IRON

Fig. 3

For 3" Pipe, 7/-; for 4" Pipe, 8/6



24" × 18" [illegible]
30" × 24" 40/-

MICA VALVE AIR INLET.

GALVANISED CAST IRON

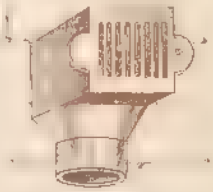
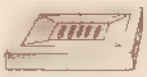


Fig. 4

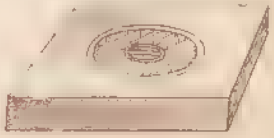
For 3" Pipe, 7/6, for 4" Pipe, 9/6.

SINK STONES.

20" Square .. .. 7/-.
9" Iron Grids .. .. 1/6.
9" Do. Galvanised 2/-



12" Square .. .. 2/6.
6" Iron Grids .. .. 1/-.
6" Do. Galvanised 1/6.



20" Square with 10" Solid Cover Galvanised 10/-.

2 & 4. SOUTH WHARF PADDINGTON. LONDON. W.

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L SANITARY MANUFACTURES.

Telephone No. 7048

BROAD & CO.,

Telegraphic Address "BROAD & Co. LONDON"

Brown Glazed Pipes.

STRAIGHT PIPES.

2" 3" 4" 6" 9" 12" 15" 18" bore.
3½d. 4½d. 5d. 8d. 1/2 1 10 3/- 4/- per foot.

CHANNEL PIPES.
2 ft. lengths.

4" 6" 9"
8d. 10d. 1/6 each.

ACCESS PIPES.

4" 6" 9"
1/- 1/4 2/4 each, nett.

LOOSE COLLARS.

3" 4" 6"
3d 4d. 6d each, net

SINGLE JUNCTIONS.

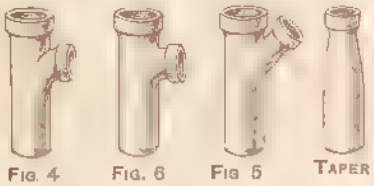


FIG. 4 FIG. 6 FIG 5 TAPER
CHARGED AS FOUR FEET OF PIPE.

DOUBLE JUNCTIONS.

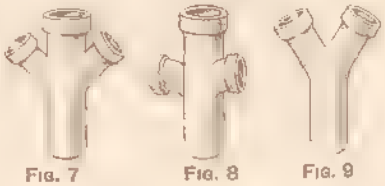


FIG. 7 FIG. 8 FIG. 9
CHARGED AS SIX FEET OF PIPE.

INSPECTION JUNCTION

FIG. 29
4" 6" 9"
3/- 4/- 7/-

BENDS.

FIG 1 FIG 1A FIG 2 FIG 3A KNUCKLE
2" 3" 4" 6" 9" 12" 15" 18"
1/- 1/3 1/9 2/3 3/6 5/6 9/- 12/ each.

INSPECTION BENDS.

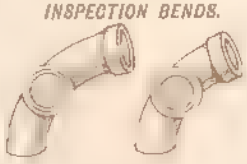


FIG 1 FIG 1A
DOUBLE PRICE OF BENDS.

TAPER BENDS.

FIG 1 FIG 1A
6 x 4 .. 3/6 each

SEWER GAS INTERCEPTORS.

FIG 10 FIG 11

FIG 31B

FIELD'S SYPHON.

FIG 35B

WEAVER'S SYPHON.

FIG 34B
4" 6/6

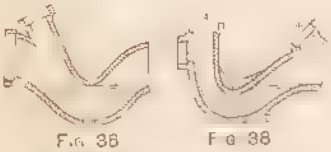
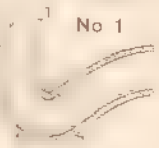


FIG 36 FIG 38

FIG 39
3" 2/6
6" 9/6
9" 5

BUCHAN'S TRAP



No 1
3/6
6
9" 5

No 2
1 - each extra.

VALVE TRAPS

REVERSIBLE

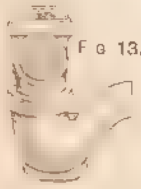


FIG 13A

Top Piece or Receiver . } 4/-
Bottom Piece or Trap } 4/-

YARD GULLIES

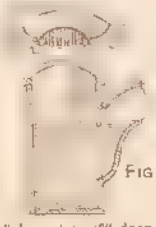


FIG 15

11" diameter, 18" deep outside . } 5/-
Dish Cover with 6" Iron Grating . } 2/6
Inlets 1 each extra.

FIG 19

11½ x 15" outside . . } 4/6
Iron Grating 1/6
Do. Galvzd. 2/-

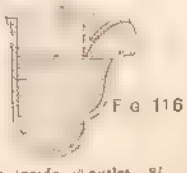


FIG 11B

6" Dia. inside, 4" outlet, 8/-
9" do. 4" do 11/-
12" do. 6" do. 16/-
With Dish Cover and Grid.

FIG. 37
12" x 18" outside 5/6

FIG 16

FIG 17
6" 9" 12"
5 7/6 12

2 & 4. SOUTH WHARF PADDINGTON . LONDON . W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

L—SANITARY MANUFACTURES.

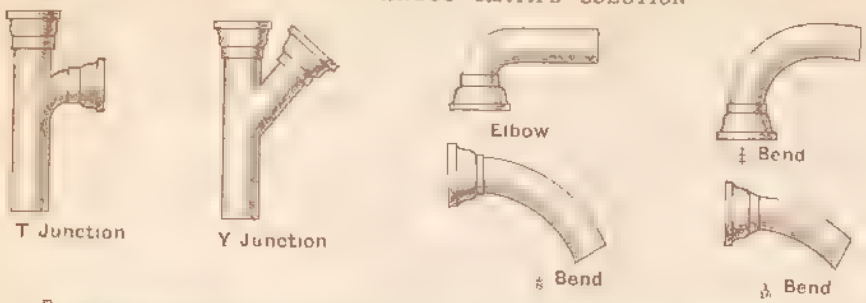
Telephone No. 7048

BROAD & CO.,

Telegraphic Address "BROAD & Co. LONDON"

Cast-Iron Drain Pipes. (SPECIAL HEAVY.)

COATED WITH ANGUS SMITH'S SOLUTION



(Straight Pipe 9 ft

BORE.	STRAIGHT PIPES. 3 ft.	6 ft.	9 ft.	ELBOWS.	¼ BENDS	⅛ BENDS.	1/16 BENDS	SINGLE JUNCTIONS Straight	Y	DOUBLE JUNCTIONS Straight	Y
4 inch .. each	6/-	10/	12/6	8/-	8/-	11/-	11/-	16/	16/	25/-	22/6
5 " .. "	8/-	13/-	17/-	11/6	15/-	17/	17/-	22/6	22/6	27/6	27/6
6 " .. "	10/-	15/-	21/-	15/-	18/-	21/-	22/6	28/-	30/-	32/6	35/-

It is suggested that quotations be applied for before tendering, as all prices herein quoted are subject to alteration without further notice

IRON STEP FOR MANHOLES.

1/6 each

GALVANISED LADLE, FOR CLEANING GULLIES.

20 inches long, 2/ each.
30 " " 3/6 "

WOODMAN'S PATENT SCREW PLUG. No 2

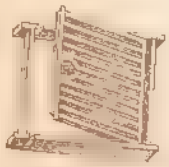
The collar (A) of the plug (B) should be cemented into the socket of the pipe (C), and the plug (B) screwed in with a dressing of Plastic Compo

	STONEWARE	IRON.
4 inch. ..	2/9	3/-
6 " ..	3/6	3/9

BROAD & Co.'s SIMPLE DRAIN PLUG, WITH RUBBER RINGS, FOR TESTING DRAINS. Fig 3

4 inch .. 4/- each
6 " .. 6/- "
9 " .. 10/- "

SCHOOL BOARD LOCKING GULLEY GRATING.



2 × 12	4 lbs.	12/6
9 × [illegible]	[illegible] "	12/6
6 × [illegible]	[illegible] "	[illegible]

IRON GRIDS.

	Plain.	Galvd.
8½" & 9" Square	1/6	2/-

	Plain.	Galvd.
4" Square	6d.	9d.
6" "	1/	1/6

	Plain.	Galvd.
4" Diam.	6d.	9d.
6" "	1/-	1/6

FOR DEAN'S TRAPS.

	Plain.	Galvd
For 6" Trap	1/6	2/-
" 9" "	2/-	3/
" 12"	3/-	5/
6" Buckets	1/6	2
9" "	2	[illegible]
12" "	3/-	5

This Catalogue supersedes and cancels all previous Lists.

2 & 4. SOUTH WHARF PADDINGTON. LONDON. W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

L SANITARY MANUFACTURES.

Telephone No. 7048

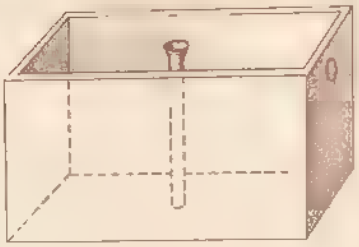
BROAD & CO.,

Telegraphic Address "BROAD & Co. LONDON"

White Enamelled Cisterns, Sinks, &c.

DRINKING-WATER CISTERNS.

PRIZE MEDAL AWARDED SANITARY INSTITUTE, GREAT BRITAIN, 1885.



PRICES AT LONDON DEPOT.

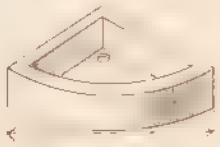
Size.	To hold about Galls.	Weight cw about	Price
36 × 24 × 18in	30	4½	75/-
42 × 24 × 20 ,,	40	5½	90/-
42 × 24 × 24 ,,	60	6½	105/-

Strong Brass NICKEL PLATED Fittings, with Ground-in Waste Washer, Nuts, and Unions; Size 1¼in., Price, 10/6.
" " " " Without Waste for Draw-off; Size, 1in. .. . . , 6/6.
These Cisterns have holes for Draw-off, and Overflow connections

SCULLERY AND BUTLERS' SINKS.

SCULLERY SINK.

ANGLE SINK.



BUTLERS' SINK.

Size Outside	White Enamel	Cane Glazed
20 × 15 × 6½in	15/-	6/-
24 × 18 × 6½ ,,	18/-	8/-
27 × 18 × 6½ ,,	20/-	9/-
30 × 20 × 6½ ,,	22/6	10/
36 × 22 × 7 ,,	27/6	15/-
42 × 24 × 7 ,,	40/-	25/-
48 × 24 × 8 ,,	50/-	35/-

	2ft.	2ft. 4in.
White Enamel	15/- ..	20/-
Cane Glazed..	5/- ..	7/-

Brass Plugs, Washers, and Chains, 5/- each.

White Enamel	
21 × 15 × 8½in outside	17/6
24 × 15 × 8½ ,, ...	21/-
24 × 18 × 10 ,, ...	25/-
27 × 18 × 10 ,, ...	30/-
30 × 18 × 10 ,, ...	32/6
36 × 21 × 11 ,, ...	40/-
42 × 24 × 12 ,, ...	50/-
48 × 24 × 12 ,, ...	60/-

It is most important to give the position of the Waste Hole when ordering Scullery Sinks

ENAMELLED BATHS.

SLOP SINK.

24 × 20 × 13½in. .. 35/-
20 × 16 × 13½ . 25
Enamelled Grids 5in dia... 2/6

5ft × 2ft 4in . .. £7 0 0 each
5ft. 6in. × 2ft. 6in. .. .. £7 10 0 ,,
6ft. × 2ft. 6in. .. .. £9 0 0 ,,
Brass charged 8/6 but a lower price when returned
All-but and second-class Baths supplied at Prices varying with quality.

WASH TUB.

24 × 20 × 15in .. . 45
27 × 20 × 15 .. . 47/6
30 × 20 × 15 . . 52/6
30 × 22 × 16 . .. . 57/6
33 × 22 × 16 65
31 × 27 × 15 60

2 & 4, SOUTH WHARF PADDINGTON, LONDON, W.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

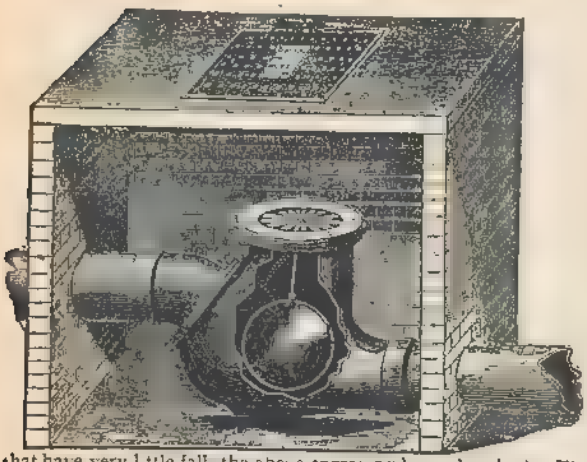
BY HER MAJESTY'S ROYAL LETTERS PATENT.

F. DYER,

SANITARY AND HOT WATER ENGINEER,

66, High Street, Camden Town, London, N.W.

PATENTEE OF THE AUTOMATIC TIDAL VALVE TRAP AND AIR-TIGHT MANHOLE COVER.

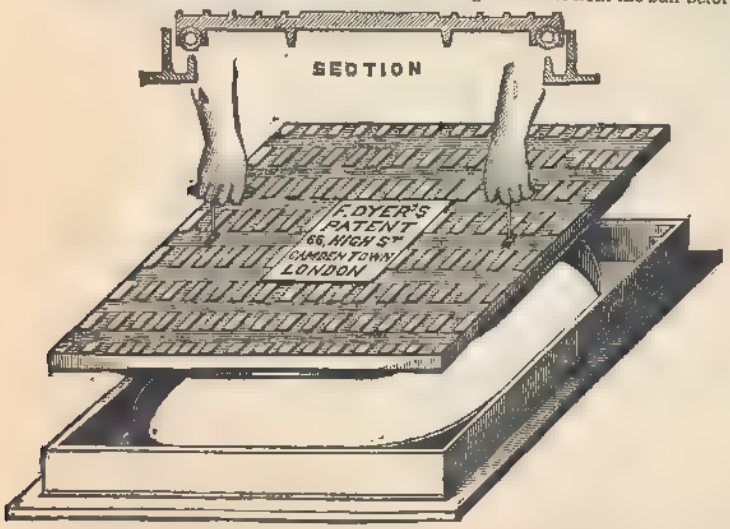


The Highest Awards at the International Medical and Sanitary Exhibition, South Kensington, London, July, 1881, after careful examinations and thorough tests by all the Judges.

The Automatic Action of this Tidal or Flood Trap prevents the backflow of sewage. The entrance of sea or other waters into places where the sewage discharges into the sea or a tidal river is therefore prevented.

The tide or flood when backing up the drain enters the outgo branch, rises in the chamber, and floats the ball, which, as the water rises, approaches the inlet or house end branch, and finally beds itself firmly upon the seating, thus effectually closing the orifice, and preventing the water entering the building. Consequent upon this action, the greater the amount of water pressure there is behind, the more completely trapped, or sealed, the trap becomes. By reason of the arm being always slightly inclined towards the inlet branch, there is no danger of the ball sticking with the arm vertical, or of its moving the wrong way. When the water subsides again, the ball falls with it, unsealing the inlet, and leaving a clear passage for the sewage, &c.

The above mentioned Traps are kept in stock for six and nine inch drains, other sizes to order, the six inch size is also made with inlet arm, only four inches above the outlet, for drains that have very little fall (the above engraving has 10½ inches). The water in these will flow up the inlet arm about three feet before the Valve Trap becomes perfectly sealed, the arm being too low to float the ball before the water rises into it, but the result is the same.



F. DYER'S PATENT **AIR-TIGHT MAN-HOLE COVER,** which can be noticed in the stone above the trap, has the following advantages over others: It is easily removed with the proper handles, and as easily replaced; thus the trouble of opening, and the danger of falling on any Workman below is entirely removed, whilst the price is moderate.

MADE IN THE FOLLOWING SIZES:

No.	Inches.		Inches.	
1,	25 × 21;	opening in clear	21 × 17,	48/-
2,	21½ × 18;	"	18½ × 15,	38/-
3,	13 × 13;	"	10 × 10,	28/-
		ALSO		
4,	21½ × 18;	opening in clear	18½ × 15,	30/-

No. 4 is an Inspection Door, the Frame being made of Iron, and the Lifting Cover of Stone, which has to be luted in with mortar, thus enabling it to be easily lifted. TRY ONE.

Patentee also of DYER'S Hot Water Circulating Cylinder System,

WHICH IS

SAFE FROM EXPLOSION.

Illustrated Catalogues on Application.

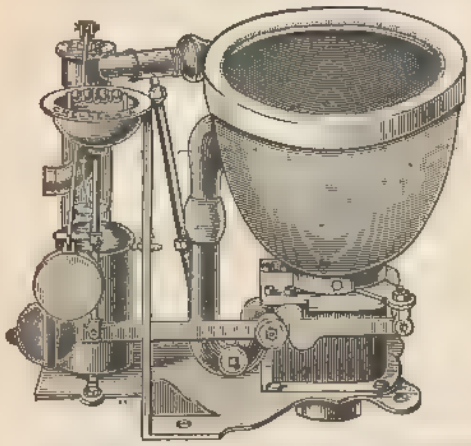
F. DYER, PATENTEE AND MANUFACTURER.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THOMAS CRAPPER & COMPANY,

Manufacturing Sanitary Engineers,

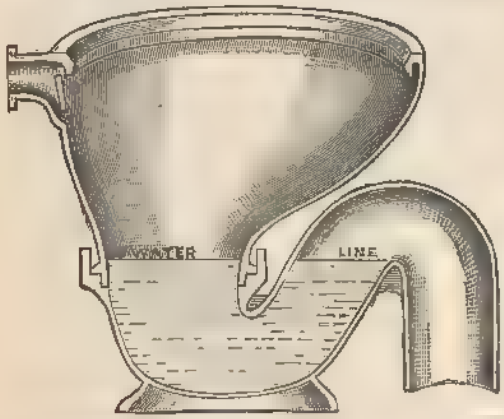
BY APPOINTMENT TO H. R. H. THE PRINCE OF WALES.



ELASTIC VALVE CLOSET.

No. 78.—Valve Closet, with white china dish with gold lines, and handle, white ware flushing rim basin, 1 in. supply valve, copper air regulator, complete as shown.

		£	s.	d.
		£3	9	6
If with 1¼ in. valve	Extra	0	3	6
„ Ornamental Basin	„	0	3	6
„ White and Gold Basin	„	0	8	9
„ Box Enamelled inside	„	0	4	9
„ Box fitted with Brass Top	„	0	6	3
„ Box fitted with union to connect Ventilating Pipe	„	0	3	9
„ 4 in. outlet	„	0	7	9



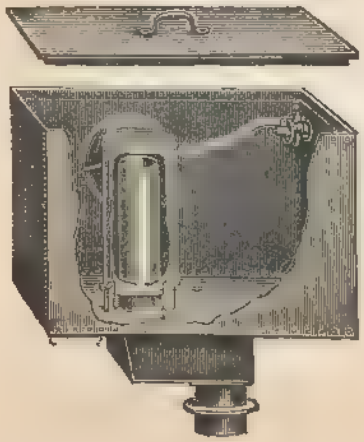
"THE OVINGTON"

WASH-DOWN W. C. BASIN AND TRAP.

FIG. 98.

White-ware Basin with Flushing Rim, and Trap (in two pieces)	£0	14	6
Blue printed Basin and ditto	0	16	6

Traps can be had either P *or* S.



AUTOMATIC FLUSH TANKS FOR DRAINS.

30 Gall.	Galvanized	Iron	Flush	Tank	...	...	...	£3	3	0
40	„	„	„	„	...	...	...	3	12	6
50	„	„	„	„	...	...	...	4	2	6
60	„	„	„	„	...	...	...	4	12	6
75	„	„	„	„	...	...	...	5	3	6
100	„	„	„	„	...	...	...	5	18	6

Complete as shown.

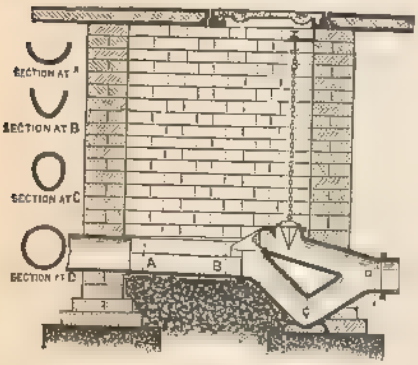
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

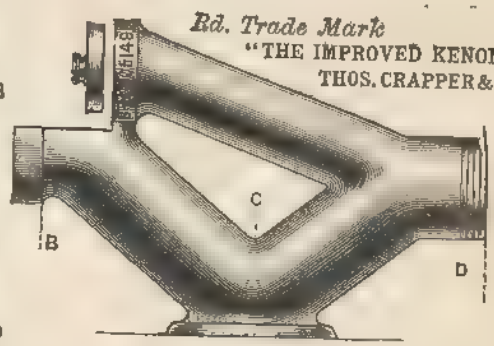
THOMAS CRAPPER & COMPANY,

MARLBORO' WORKS, CHELSEA.

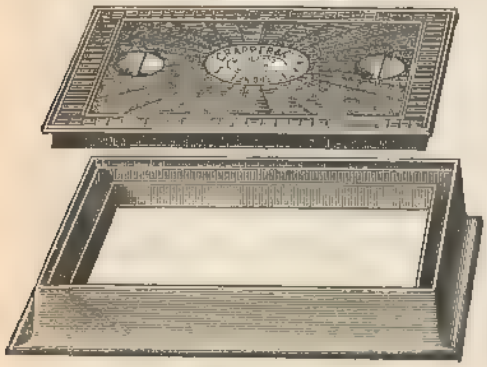
Show Rooms and Offices: 50, 52, & 54, MARLBOROUGH ROAD, CHELSEA, LONDON, S.W.

THE "IMPROVED KENON." DISCONNECTING TRAP





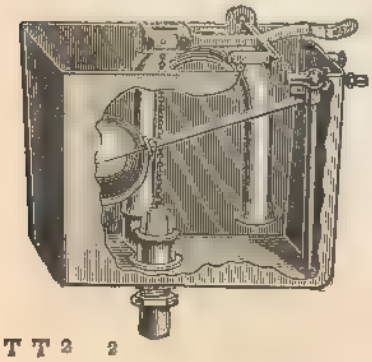
	4 in.	6 in.
No. 1. The IMPROVED KENON TRAP, of glazed stoneware, with gun metal valve, galvanised iron chain, pull and bracket, and brass screw cap	31/-	34/6
Improved channel pipe, white glazed inside, and on top edge.	3/3	4/6
No. 2. Of glazed stoneware ...	9/-	12/6
If Traps glazed white inside, extra	3/6	4/-
" " white inside and out ... ... extra	7/-	8/-



IMPROVED SANITARY
AIR-TIGHT FRAMES AND COVERS,
FOR DRAINS AND MANHOLES.

FIG. 195.

Opening.		*Painted.*	*Galvanised.*
26 in. by 26 in.	21 in. by 21 in.	27/6	42/6
25½ " " 21½ "	20 " " 16 "	22/-	34/6
20 " " 20 "	15 " " 15 "	18/6	27/6
26½ " " 11½ "	21 " " 6 "	15/6	25/6



IMPROVED
SYPHON WATER-WASTE PREVENTER.

FIG. 119.

Cast Iron, 2-Gallon for Hopper Closet, with Chain and Pull, complete	£0 17 6
Cast Iron, 3-Gallon for Wash-out Closets	0 19 6
" " for Valve Closet	1 6 9
If Galvanised, extra	0 4 6

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

A. EMANUEL & SONS, Lim.,

SANITARY ENGINEERS,

MARYLEBONE LANE, W.

Special attention is given to the Manufacture of

SLATE AND MARBLE LAVATORIES,

Both in Cabinets for private use and in Ranges for Public Buildings.

ESTIMATES

Will be Furnished on Application for any Designs in Plain and Enamelled Slate, White and Fancy Marbles, the latter including St. Ann's, Rouge Royal, Dove, Bardella, St. Sylvester, Sienna Jaune Lamartine, &c.

A CHOICE SELECTION OF

Fancy Printed, Coloured, and Gilt Basins

Of the Best Designs are kept in Stock. The Cabinet work is guaranteed of the very best finish, and where Wood-work is not required all parts and fittings are supplied, ready for fixing by the Plumber or Builder.

All the Requisite Slabs, Fittings, &c., are supplied for the Erection of Urinal Ranges in Plain and Enamelled Slate, and any Description of Polished Marble; and Quotations may be had on application.

ESTIMATES GIVEN FOR SPRAY OR NEEDLE BATHS. APPLY FOR CATALOGUES.

A. EMANUEL & SONS, LIMITED,

Patentees and Manufacturers of Sanitary Appliances.

MANUFACTORIES.

LONDON: GEORGE STREET, and BLANDFORD STREET, MARYLEBONE, W.
BIRMINGHAM: PHŒNIX WORKS, SPEAKING STILE WALK, HOLLOWAY HEAD.

SHOW ROOMS:

GEORGE STREET & HIGH STREET, MARYLEBONE, LONDON, W.

WAREHOUSES.

MARYLEBONE LANE & HIGH STREET, MARYLEBONE, LONDON, W.

OFFICES

53 to 57, MARYLEBONE LANE, LONDON, W.

Telegrams: "EMANUEL, LONDON." (Where all Communications should be addressed). [Telephone, No. 7,026

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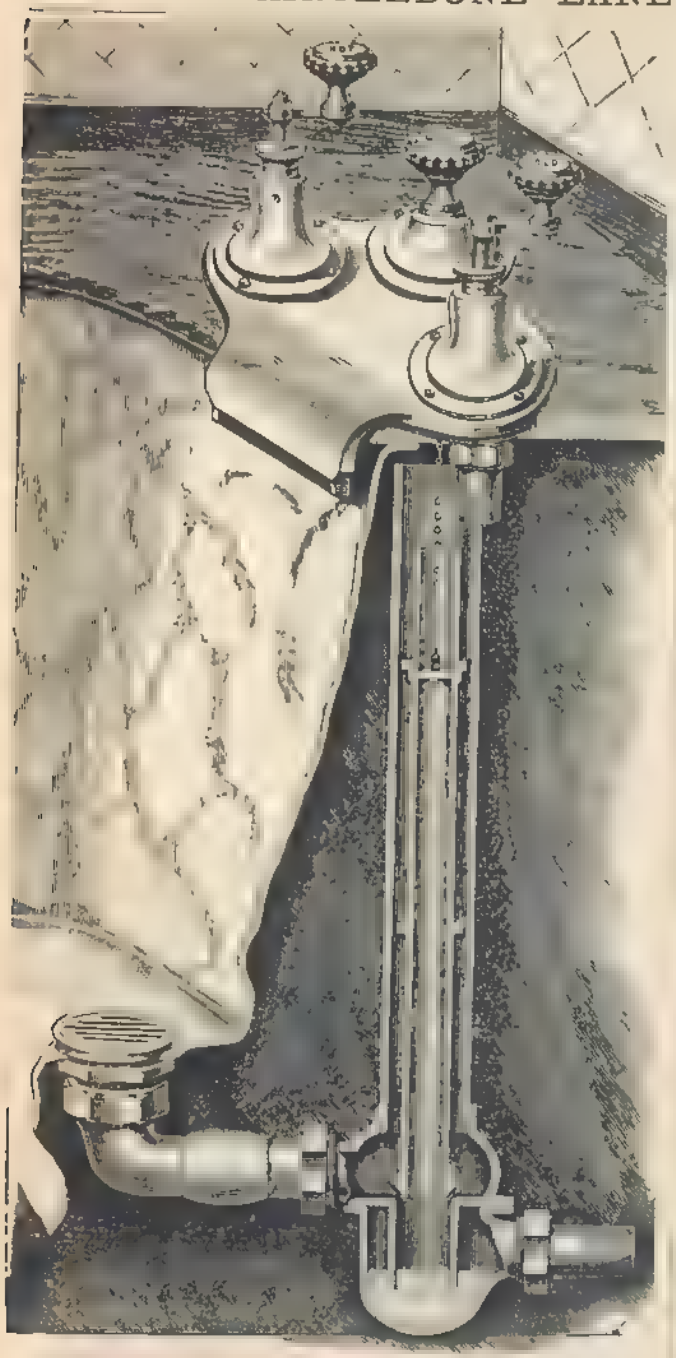
A. EMANUEL & SONS, LIMITED, SANITARY ENGINEERS,

MARYLEBONE LANE, LONDON, W.



EMANUEL'S IMPROVED BATH FITTINGS.

No. 661. Hot, Cold, and Waste Bath Plate (very massive), with 1½ in. Full-way Valves, as illustrated. Brass, £3 5s., Plated, £3 17s. 6d.

No. [illegible] Brass Quick Waste and Overflow, carrying 2 2 in. clear-way throughout. With Trap, £2 3s. 6d.; without Trap, £1 17s. 6d.
(Trap may be fixed to discharge in any direction.)

No. 703. Special Full-way Washer, Grate, and Union. Brass, 7/6, Plated, 10/-

No. 537.

EMANUEL'S IMPROVED SELF-CLOSING CAM ACTION VALVE

The seating of this Valve is protected by the perforated metal [illegible] as illustrated. By removing the screws [illegible] the flanges at the [illegible] parts may be taken out without [illegible] with any joints after the Valve is [illegible] a great advantage, as permanent [illegible] are generally very difficult to get at, and considerable damage frequently results when, with the ordinary valves it is found necessary to remove them for repairs.

Polished Brass, as illustrated, 18/-

Nickel Plated, 24/-

No. 548.

Emanuel's Improved Half-Turn Screw-down Valves

FOR LAVATORIES & BATHS.

The Jumper of this Valve is capped with metal, and fitted loosely to the spindle with two screws, and is raised or depressed as the spindle is turned. The spindle works in a quick thread, and one half-turn opens the Valve.

	For Lavatories		*For Baths*	
	½	¾	½	¾
Polished Brass	11/6	1[illegible]	16	18 6
Nickel Plated	1[illegible]	18	21	24,
[illegible]	[illegible]	[illegible]	16	20

EMANUEL'S IMPROVED GUN METAL FULL WAY SCREW DOWN STOP COCK

A ½ in. of this pattern is [illegible] in resource [illegible] a [illegible] Recommended as Intermediate Valves. Also made as Tap Valves [illegible]

½"	5 6	1"	13
¾"	7	1¼"	18 6
½ ..	8/6	1½"	26/-
2"	..	52/-	

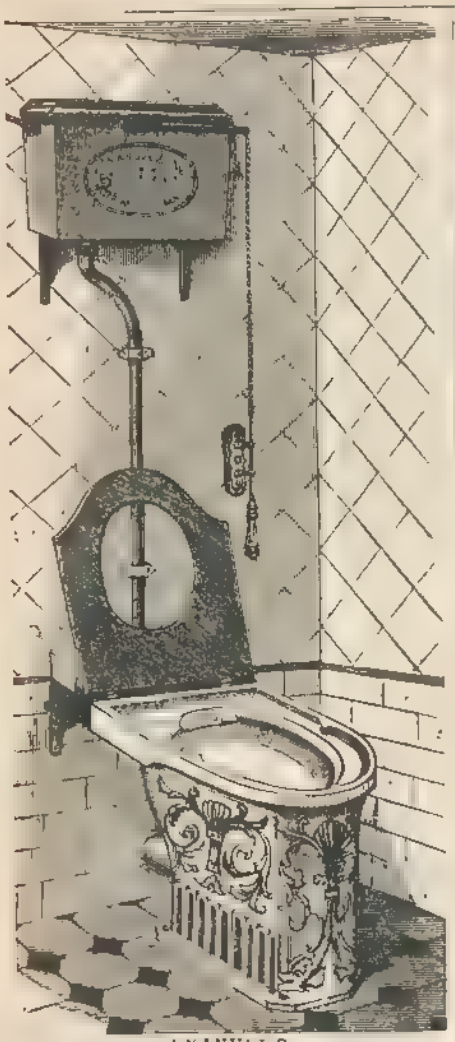
WILL STAND THE HIGHEST PRESSURE.

With Quick Thread at same prices.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

A. EMANUEL & SONS, LIMITED, SANITARY ENGINEERS,

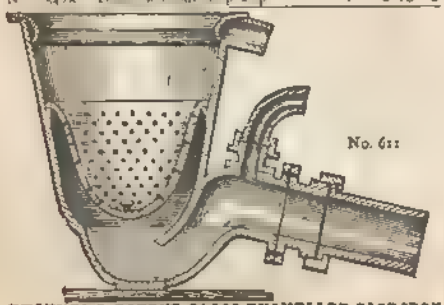
MARYLEBONE LANE, LONDON, W.



EMANUEL'S
PATENT IMPERIAL PEDESTAL CLOSET.

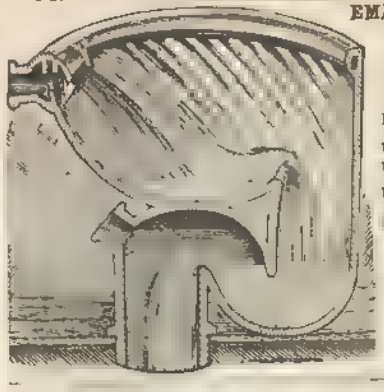
The flushing arrangements are identical with those of the "Colonial" Washout as above

No. 1540A	Complete exactly as illustrated	£7 7 0
No. 1542A	Dito without Slop Top	5 15 0



No. 611

EMANUEL'S PATENT GLASS-ENAMELLED CAST IRON SLOP RECEIVER & TRAP, with Adjustable Flushing Rim and Supply (so that inlet and outgo may be fixed in any direction), Removable Strainer and 3 in Brass Outlet Connection, straight or bent, with Ventilating Union, as illustrated £3 4s. Without Ventilating Union, £2 19s.



EMANUEL'S PATENT "COLONIAL" WASHOUT CLOSET & TRAP.

IN ONE OR TWO PIECES.

Flushed by means of two Earthenware Fans and a Flushing Rim.

Lower [illegible] directs water round back and [illegible]

Upper Fan [illegible] water [illegible] centre of [illegible]

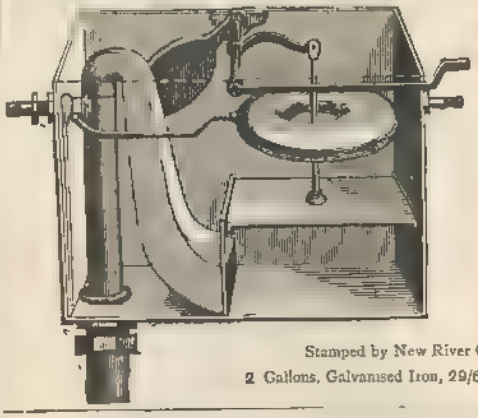
[illegible]

No. 15[illegible] One piece, with S trap.

No. 15[illegible] One piece, with P trap.

No. 1540 Two pieces with flanged connections, rubber ring, and brass clips.

Wedge	Painted
30/-	37/6



No. 96.

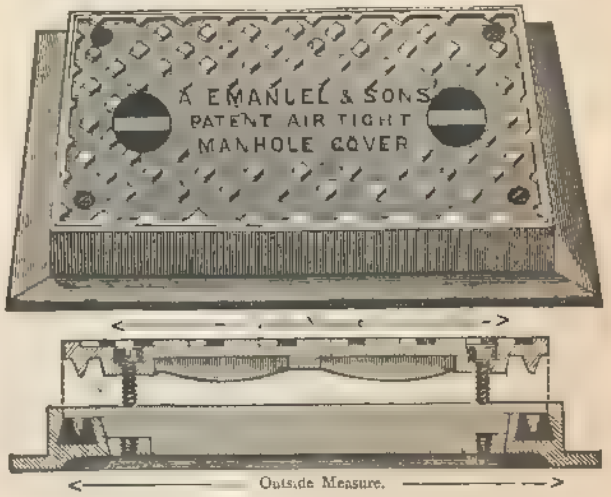
EMANUEL'S PATENT VALVELESS AND NOISELESS OBLONG SYPHON WATER WASTE PREVENTER

Complete with Copper or Brass Syphon, ½ in. supply Valve, Copper Float, ½ in. overflow Brass Chain and China Pull.

	Gal. Iron.	Cast Iron.
2 Gallons	28/-	30/6
3 "	31	—

Stamped by New River Company.

2 Gallons, Galvanised Iron, 29/6; Cast Iron, 31/6



No. 1559.

EMANUEL'S PATENT AIR TIGHT MAN HOLE COVER

An endless rubber ring is sprung into a channel running round the frame, and being wider at the bottom than at the top the ring is held fast in position. On the upper surface of the rubber is a V groove, and a corresponding V projection on the Cast Iron Cover is arranged to fit into this. The Cover is fastened down by gun metal bolts, and the projection referred to causes the rubber to expand in the channel, making the frame perfectly air-tight.

		Painted.	Galvanised.
Outside Measure.	2 ft. 8 in. by 1 ft. 10 in.	35/-	56/-
	2 ft. 3 in. by 1 ft. 8 in.	27/-	43/-
	2 ft. by 1 ft. 6 in.	24/-	38/-
Inside Measure	2 ft. 5 in. by 1 ft. 7 in.	35/-	56/-
	2 ft. by 1 ft. 5 in.	27/-	43/-
	1 ft. 9 in. by 1 ft. 3 in.	24/-	38/-

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

A. EMANUEL & SONS, LIMITED,

SANITARY ENGINEERS & BRASS FOUNDERS,

Manufacturers of Every Description of Sanitary Appliances,

HOT & COLD WATER VALVES, WATER WASTE PREVENTERS, &C.,

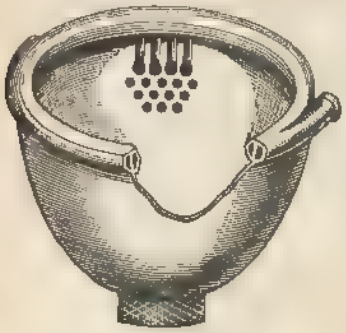
Works—LONDON AND BIRMINGHAM. Show Rooms—GEORGE STREET, MARYLEBONE,

Offices—53 to 57, MARYLEBONE LANE, LONDON, W.

Telegrams—"EMANUEL, LONDON" [ILLUSTRATED CATALOGUES POST FREE ON APPLICATION.] *Telephone*—No. 7,026.

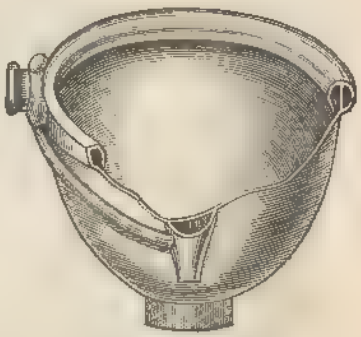
EMANUEL'S PATENT VALVE CLOSET BASINS AND APPARATUS.

a. Section of Overflow Arm.



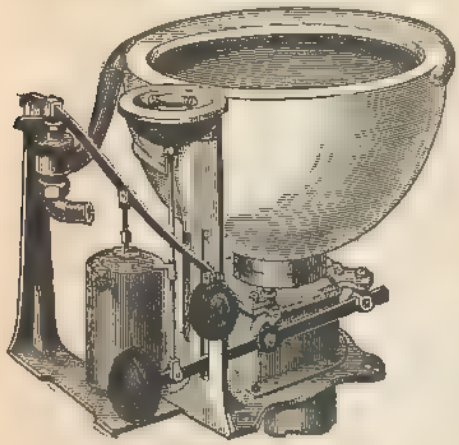
Patent Niagara Basin.

b—Section of Patent Double Flushing Rim.



Patent Phœnix Niagara Basin.

The above Valve Closets Basins are provided with a Double Flushing Rim, as shown in Section *b*. The inner rim only is supplied with slots for flushing the inside of the Basin. The outer rim is simply a channel which, passing from the supply arm, half-way round the Basin empties itself into the inner rim at the point A. The water in flowing from the supply arm is divided right and left, the lesser volume passing to the left, and flushing the left side of the Basin. The greater body passes to the right, where it is again divided, part running along the inner rim and flushing the right side of Basin. The remainder flows along the outer rim, enters the inner rim at the point A in undiminished force, and thence through the slots effectually flushes the front of Basin, which with the ordinary flushing rim is generally left untouched by the water. In the Patent Niagara Basin the holes at the inlet to overflow arm are provided with the slots and so shaped (see Section *a*) that the recharging of the trap of overflow arm is assured whenever the supply valve is opened. The Phœnix Niagara Basin is provided with a weeping pipe, or channel, passing in the earthenware from the top of supply arm to the overflow arm which affords another and equally effective method of recharging the trap of overflow, and entirely supersedes the old system of lead weeping pipe which from its position in the earthy bracket flattened or otherwise rendered useless. Further, any leakage of the supply valve can be at once detected, as the inlet to channel is placed above the inlet to flushing rim. With the old lead weeping pipe the whole contents of a cistern might easily run to waste without the leakage being detected.



View

Emanuel's Valve Closets are made with either 3 in. or 4 in. Bottom, or Outlet Valves, the latter being strongly recommended. With their Four inch Outlet V. C., fitted with the Improved Looking-Glass Bottom Valve (the glass forms the clack, and shuts *without* any projecting rim against the rubber seating), and 1¼ in. Supply Valve, it is absolutely impossible for paper or anything to catch in the Valve, and the effectual flushing of the basin is guaranteed.

	Ordinary 3" Outlet and 1" Supply.	Special 4" Outlet and 1¼" Supply.
Best Quality Valve Closet, with Patent Niagara Double Flushing Rim Basin, Sunk Dish, Supply Valve Copper Regulator, Lead or Enamelled Iron Box, Brass Collar, Cap, and Screw in Trap of Overflow, and Indiarubber Seating	£4 1 6	4 19 0
Second Quality do. do. do. ..	3 8 6	4 6 0
If fitted with the Patent Phœnix Niagara Basin, with Earthenware Weeping Pipe. Best Quality ..	4 8 6	5 6 0
Second Quality do. do.	3 15 6	4 13 0
Best Quality V. C.'s, fitted with Emanuel's Improved Looking Glass Bottom Valve extra	0 8 0	0 12 0

1¼ in. Ventilating Union, 5/- extra. (1½ in. and 2 in. also made).

EMANUEL'S PATENT PHŒNIX VALVE CLOSET as above, but *trapped above* the floor line with Sunk Dish 1 in. Supply Valve, Copper Regulator, Lead Trap, with Flanged Outlet. Cap and Screw in Trap of Overflow, Brass Collar and Rubber Seating, £5 5s.

This Closet can be made to discharge in four different directions, viz., right, left back, and at angle between back & left hand (sitting).

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

EVERED & Company, Lim.,

London { 28 & 29, DRURY LANE, W.C.
50, HOLBORN VIADUCT, E.C.

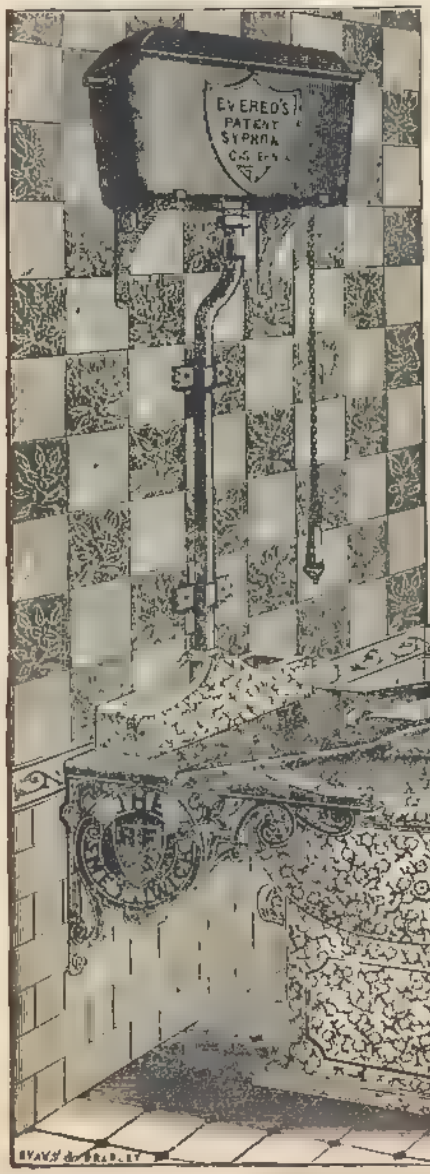
Trade R E & S Mark.

BIRMINGHAM: Surrey Works, Smethwick; and Barnet Works, Devonshire Street.

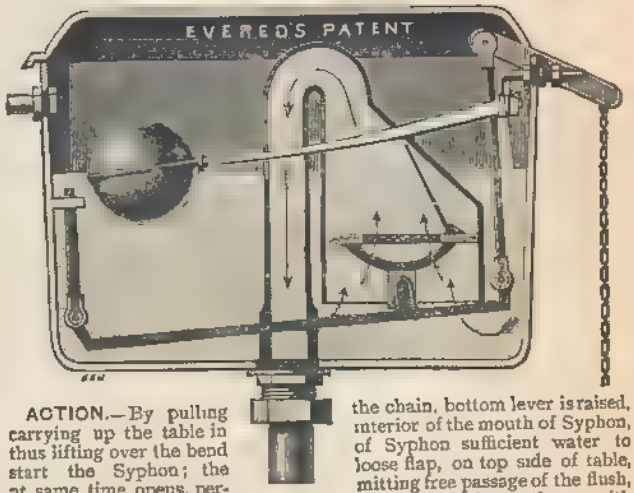
EVERED'S "SMETHWICK" SANITARY CLOSET

WITH THE

PATENT SYPHON FLUSHING CISTERN. No. 0517.



Price complete - from £3 9 0.



ACTION.—By pulling the chain, bottom lever is raised, carrying up the table in interior of the mouth of Syphon, thus lifting over the bend of Syphon sufficient water to start the Syphon; the loose flap, on top side of table, at same time opens, permitting free passage of the flush, in the direction of the arrows, which continues with great force till the requisite two gallons or three gallons is passed, when table and lever return to normal position, ready for further action.

Price—2 Gallons, Painted, 18/6; Galvanized, 26/-.

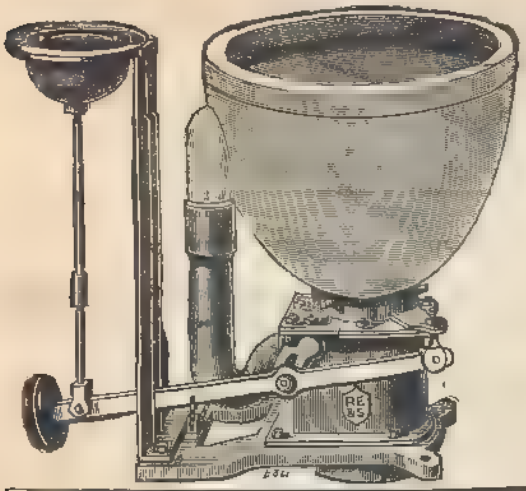
Approved by the Principal Water Companies in London and the Provinces.

Mahogany Seats, Hinged 18/-
Brackets for Seats per pr., Painted, 6/-; Galvanized 8/6

THE "SMETHWICK" CLOSET BASIN.

In Cane and White Earthenware.. . ..	21/6
„ all White	25/-
„ Cane and Printed	28/6
„ White and Printed	32/6
„ Blue Daisy Pattern	32/6

From the collections of Sydney Living Museums / Historic Houses Trust of NSW



IMPROVED VALVE CLOSET,

"ORDINARY" QUALITY.

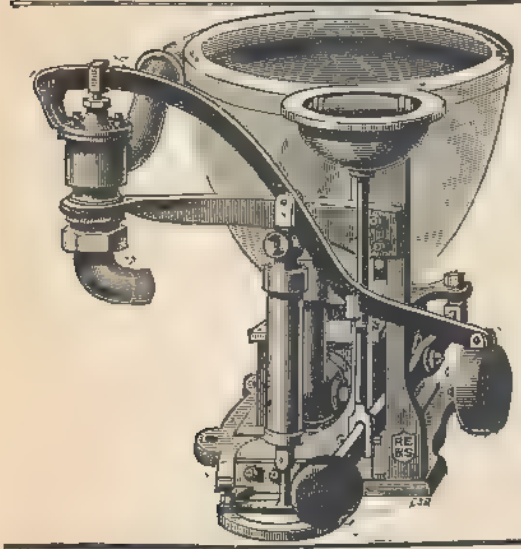
Without Supply Valve and Regulator is No. 0600.
With " " is No. 0601.

NOTE.—*Can be had with 4-in Outlet Valve and with mirror bottom valve.*

No. 0600.	With white basin	35/9 each
"	With printed basin	38/- "
No 0601	With 1-in valve, brass or japanned regulator and white basin	48/6 "
Do.	do do and printed basin	51/6 "
	If copper bellows regulator .. .. extra	2/- "
	If 1¼-inch valve .. .. .. "	3/- "
	If ¾-inch valve .. .. .. less	1/6 "

EVERED'S
CABINET BRASS FOUNDRY BOOK,
28, DRURY LANE, LONDON, W.C.

Trade Mark.



IMPROVED VALVE CLOSET.

"BEST" QUALITY.

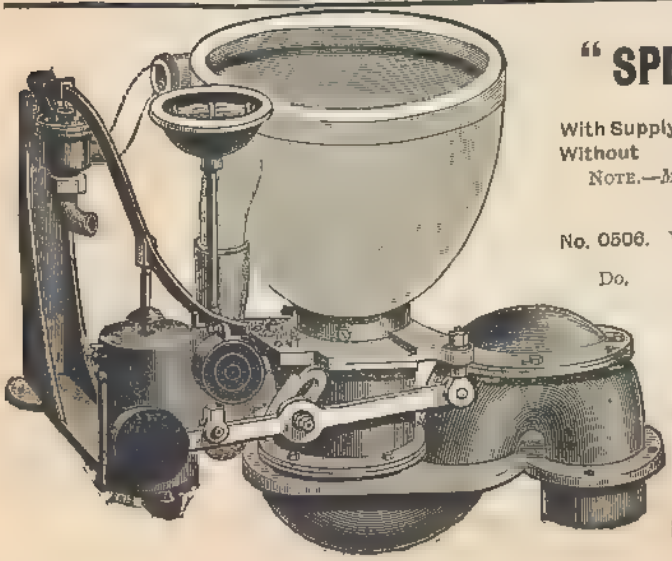
With Supply Valve and Regulator is No. 0603.
Without " " is No. 0602.

NOTE.—*Can be had with 4-in Outlet Valve and with mirror bottom valve.*

No. 0603.	With 1-in supply valve, printed basin, and brass regulator	69/- each
"	With 1¼-inch " " " "	72/- "
	If "best" copper bellows regulator, extra	3/- "
	If white basin .. .. .. less	2/- "
No. 0602.	Closet only, with printed basin	52/- "
"	If with white basin .. .. .. less	2/- "

EVERED'S
Catalogues of General Water Fittings,
28, DRURY LANE, LONDON, W.C.

Trade Mark.



IMPROVED

"SPECIAL" VALVE CLOSET,

TRAPPED ABOVE FLOOR LINE.

With Supply Valve & Regulator on separate frame, is No. 0506
Without " " " is No. 0507

NOTE.—*Made with outgo as shown, or with outgo horizontal in any direction, to suit position of Soil Pipe.*

No. 0506.	With 1-in. valve, japanned bellows or brass regulator, and printed basin	62/6 each
Do.	do. do. and white basin	60/6 "
	Extra, if 1¼-in. valve	3/- "
	do. if copper bellows regulator, best	3/- "
	Less, if ¾ valve	1/6 "
No. 0507.	With printed basin	47/- "
"	With white basin	45/- "

SPACIOUS SHOWROOMS
FOR GASFITTINGS, &c., &c.,
50, Holborn Viaduct, London, E.C.

Trade Mark.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

GOLD MEDAL.
Exposition Universelle,
PARIS, 1889.

HIGHEST HONOURS
AT ALL
International Exhibitions
AWARDED

GOLD MEDALS.
International Exhibition,
BARCELONA, 1888

GEORGE JENNINGS

SANITARY ENGINEERS,

STANGATE, LONDON,

FOR HIS IMPROVED

Copper Enamelled Baths, Bath Room Appliances, Tip-up and Lift-out Lavatories, Water Closets, Urinals, Sinks, Hydrants, Pumps, Sluice Valves, and Water Fittings of every Description.

WARMING AND VENTILATING ARRANGEMENTS.

Stoneware Drain Pipes and Connections, and Improved Electric Speaking Tubes, Bells, &c.

JENNINGS' PATENT VALVE CLOSET AND TRAP.

IN ONE PIECE OF STRONG GLAZED EARTHENWARE,

PRICE FROM 70s. UPWARDS.

Over 100,000 in use. Fixed in all the principal Clubs, Hotels, Mansions, Railway Stations, Hospitals, Barracks, Asylums, &c., in all parts of the world.
The Cleanest and most efficient Closet ever produced, free from complication.
With latest improvements in Service Valve Ball Overflow Discharge Plug, and Base under Trap. Ensuring the maintenance of a perfect connection with soil pipe.
Fitted with Waste Preventing arrangement, 25s. extra.

Jennings' Patent Waste-Preventing Cistern,

WITH AFTER FLUSH.

Applicable to Valve Closets of all kinds. Approved by all the principal Water Companies. An absolute Waste Preventer, dividing the regulation quantity into two portions. The first cleanses the Basin when the handle is raised, the second provides an abundant and equally rapid after-flush, recharging the Basin, a most essential feature in connection with Valve Closets.

PRICE FROM 38s. UPWARDS

JENNINGS' VENTILATING & DRAIN TRAP,

In Highly Glazed Vitrified Stoneware.

Designed for Introduction at the point of junction with cesspool or sewer. Being formed in two pieces the socket A may be turned in any required direction to the line of drain, and several pipes may be connected to one outfall, by the substitution of a junction piece, with two or three inlets.

TRAP, WITH SINGLE JUNCTION PIECE, 7s. 6d., AND UPWARDS.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Jennings' Improved Patent "Tip-Up" and "Lift-Out" Lavatories.

AS ARRANGED FOR THE

RETIRING ROOMS OF HOTELS, CLUBS, RAILWAY STATIONS, AND OTHER PUBLIC BUILDINGS,

ALSO WITH CABINET ENCLOSURES SUITABLE FOR

Mansions, Villas, and every description of Private Residences.

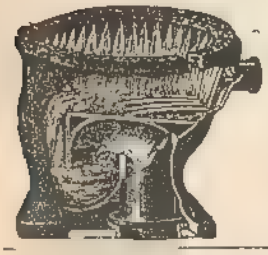
Secure in use, but permitting instantaneous and easy removal for cleansing. Architects will please specify Jennings' Improved Patent "TIP-UP" and "LIFT OUT" Basins, with which his Lavatories are now fitted, and as a guarantee for their efficiency bear his full name and address.

Made to suit any position, with Plain Slate, Enamelled Slate, or Marble Tops.

PRICE FROM 70s. PER BASIN UPWARDS.

"THE PEDESTAL VASE."

(Registered No. 16,300)



JENNINGS' IMPROVED W. C. APPARATUS, COMBINATION URINAL, AND SLOP SINK,

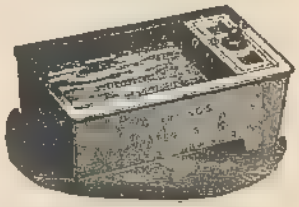
Amongst other advantages,

ENSURES PERFECT CLEANLINESS, AND AFFORDS EXCEPTIONAL FACILITIES FOR AN ABSOLUTELY SOUND CONNECTION WITH SOIL PIPE.

Prices.—With Hinged and Clamped Seat, Cast Iron Waste Preventing Cistern, with Syphon Action, and length of 1½ down service and joint complete, from £5 17s. 6d. upwards.

JENNINGS' IMPROVED PATENT COMBINED WASH-UP SINK,

IN GALVANISED CAST IRON, from 40s. upwards.



FOR KITCHENS, SCULLERIES, &c.

By lowering Standpipe P, it can be used as a Wash-up; when raised, waste waters freely escape through the Slot S, which acts as a grating (but is not so easily stopped up). When lined with pine, it is most suitable for Butlers' Pantries; for washing China, Glass, &c.

JENNINGS' PATENT HOUSEHOLD SLOP SINKS,

IN PLAIN OR ENAMELLED SLATE, TO SUIT VARIOUS POSITIONS.

Price, with Cold Supply Tap, from 84s. upwards.

JENNINGS' PATENT URINALS,

ARRANGED FOR

CLUBS, BANKS, THEATRES, SCHOOLS, RAILWAY STATIONS, and other Public Buildings.

COMPACT, EFFICIENT, AND DURABLE.

Immense Economy effected in the Water Supply.

PRICE FROM £6 6s. PER PERSON.

ILLUSTRATED CATALOGUES POST FREE ON APPLICATION.

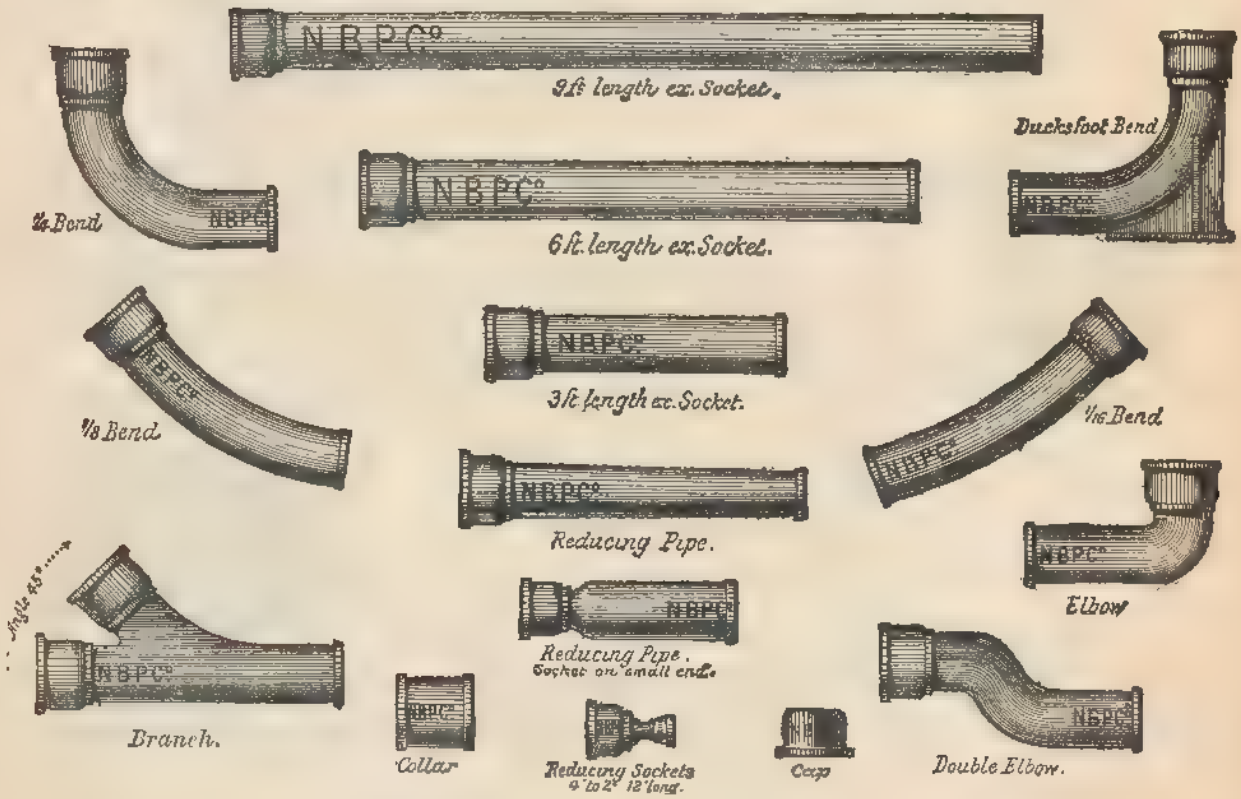
Telegraphic Address—"JENNINGS, London." Telephone No. 4680.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE NORTH BRITISH
PLUMBING & SCIENTIFIC SANITATION Co.,

86, Newman Street, Oxford Street, W.

Patentees & Sole Manufacturers of the SCOTT-MONCRIEFF SYSTEM OF CAST IRON DRAINAGE.



PRICES (*subject to fluctuations of Iron Market*) OF

SOCKET PIPES AND CONNECTIONS FOR HOUSE DRAINAGE.

4 inch Pipes	..	9 feet lengths	..	8/11 per yard.	
5 " "	..	9 feet "	..	5/1 "	
6 " "	..	9 feet "	..	6/4 "	
4 " "	..	6 feet "	..	8d. "	extra.
5 and 6 " "	..	6 feet "	..	1/- "	"
4 " "	..	3 feet "	..	1/- "	"
5 and 6 " "	..	3 feet "	..	1/4 "	"
4 inch connections,		16/4 per cwt.		Special Pattern Bends and Branches	
5 and 6 " "		15/8 "			

DELIVERED AT OUR WORKS.

These Pipes vary from $\frac{5}{16}$in. to $\frac{3}{8}$in. in thickness, and in weight from 50 lbs. per yard for the 4 inch Pipe to 90 lbs. for the 6 inch Pipe. The sockets are extra thick to allow of caulking with lead, as in street mains.

TRADE DISCOUNT TEN PER CENT.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE NORTH BRITISH
PLUMBING & SCIENTIFIC SANITATION Co.,

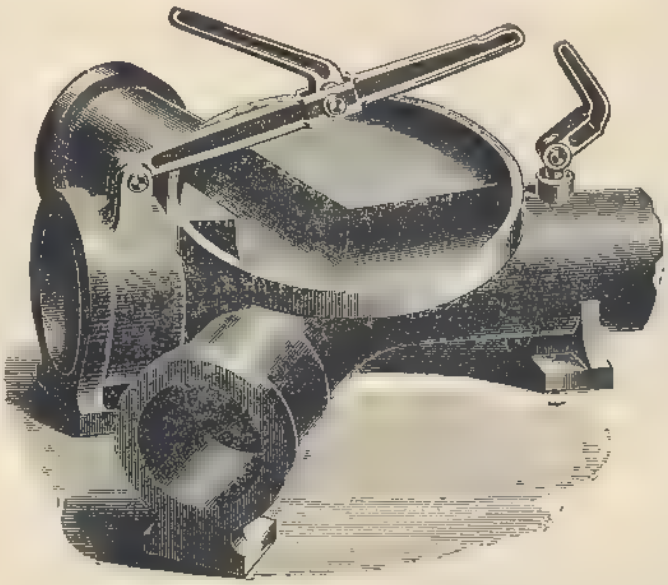
86, Newman Street, Oxford Street, W.

Patentees & Sole Manufacturers of the SCOTT-MONCRIEFF SYSTEM OF CAST IRON DRAINAGE.

PATENT CAST IRON INSPECTION CHAMBER.

(ROUND PATTERN.)

This apparatus can be made with any number of branches; the whole being rendered gas tight by a cast iron cover with imperishable joint, and cam action lever. By this means an entire system of drains can be tested by hydraulic pressure, and inspected at a moment's notice by an unskilled workman. It supersedes inaccessible junction pipes on the line of drains, and is fixed to the cast iron drain pipes by socket joints run with lead, and caulked, giving the same security as in the case of high pressure mains.



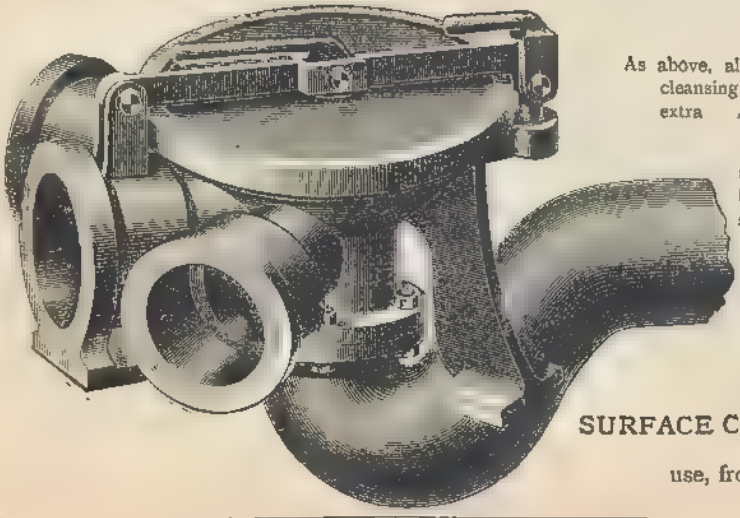
These Cast Iron Inspection Chambers have been adopted by H.M. Office of Works, the Post Office, &c, and supplied to Kensington Palace, Clubs, Banks, and other Public Buildings; also Private Mansions and Houses throughout the country.

PRICE.

5" Main Drain Pipe ..	4 5 0
6" Main Drain Pipe ..	4 15 0
Each inlet branch, up to four (two on each side), extra ..	0 17 6

PATENT CAST IRON INSPECTION CHAMBER WITH TRAP.

This Chamber can be arranged for any number of branch inlets upon each side, and is provided with a disconnecting trap and a cleansing eye to the main sewer by means of a Y junction. It can be tested and inspected with the same facility, and is secured to the drain pipes as above described



PRICE.

As above, also Trap, with cleansing eye to sewer, extra 0 18 6

Special quotation for more than four inlet branches (two on each side).

SURFACE COVERS for general use, from 28/- each.

TRADE DISCOUNT TEN PER CENT.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

THE NORTH BRITISH
PLUMBING & SCIENTIFIC SANITATION Co.,

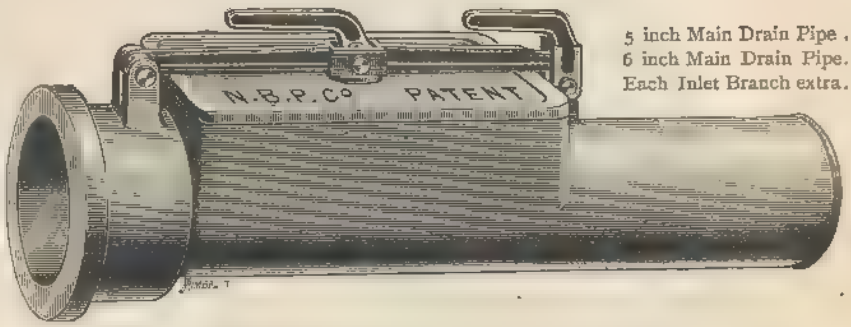
86, Newman Street, Oxford Street, W.

Patentees & Sole Manufacturers of the SCOTT-MONCRIEFF SYSTEM OF CAST IRON DRAINAGE.

PATENT CAST IRON INSPECTION CHAMBER,

(SQUARE PATTERN.)

Four Branch Inlets (two on each side) or fewer can be attached to this pattern as required, and a disconnecting trap with cleansing eye towards sewer can also be fixed. This form of chamber is expressly designed for the smaller class of houses, and is especially recommended for building estates.



5 inch Main Drain Pipe ..	£3 5 0
6 inch Main Drain Pipe..	3 15 0
Each Inlet Branch extra..	0 17 6

Trap, with cleansing eye to sewer, extra, 18/6

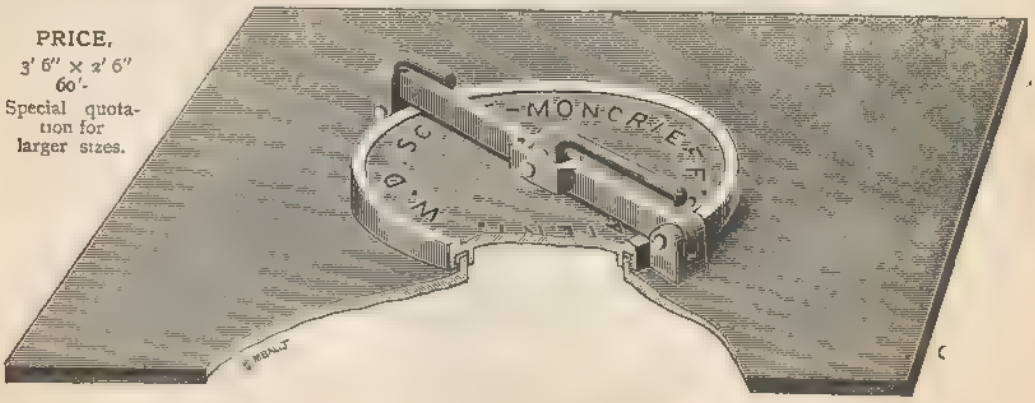
PRICE ... ... 4 inch Main Drain Pipe ... ... £2 15s.

PATENT CAST IRON GAS-TIGHT COVER,

With Plate combined, for Building into Brick Manholes.

This is designed for Manholes which provide access to Stoneware Drains, the Plate being cast to any required dimensions for building into the brickwork and is recommended as being absolutely gas tight, the Cover being provided with Imperishable Joint and Cam Action Lever, as described on preceding page.

PRICE,
3' 6" × 2' 6"
60/-
Special quotation for larger sizes.



SURFACE COVERS for general use, from 28/- each.

TRADE DISCOUNT TEN PER CENT.

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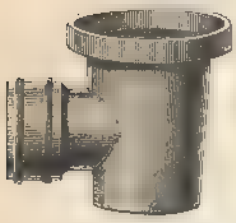
PLUMBING & SCIENTIFIC SANITATION Co.,

86, Newman Street, Oxford Street, W.

Patentees & Sole Manufacturers of the SCOTT-MONCRIEFF SYSTEM OF CAST IRON DRAINAGE.

CAST-IRON GULLEY TRAP.

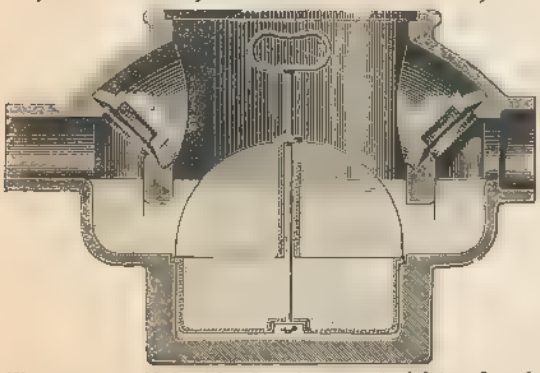
This has the advantage of providing three sections, so that rain water, sink wastes, &c., may be discharged either over or beneath the ground level as required, the trap outlet being lead-caulked to the drain.



PRICES

	s.	d.
A ..	4	0
B ..	6	0
C ..	7	6

PATENT IMPROVED GREASE TRAP.



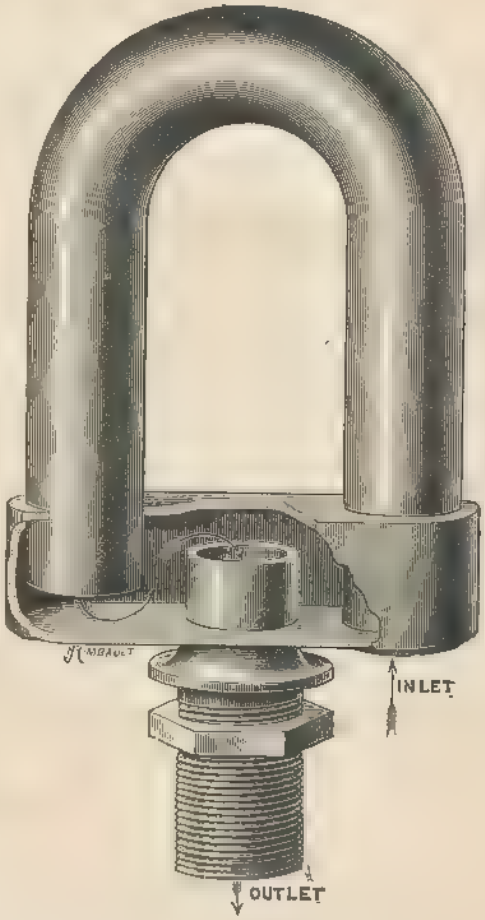
These are provided with cleansing eyes to inlet and outlet branches with screwed brass plugs, and baffler plates for intercepting the grease; also a cast iron moveable dish and handle, and surface grating.

PRICE

Brown Earthenware, 44s White Glazed Earthenware, 66s

PATENT

AUTOMATIC FLUSHING SYPHON.



This can be fixed to any cistern, irrespective of its shape or dimensions, and is provided with brass union and washer, also cap and lining for connection to outlet pipe.

PRICE.

Per inch diameter of outlet pipe, up to 3 inches, 15s.

SPECIAL QUOTATIONS FOR LARGER SIZES

TRADE DISCOUNT TEN PER CENT.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

JOHN FELL & COMPANY,

REGISTERED TRADE F MARK.

ST. * JAMES'S * BRASS * FOUNDRY,

WOLVERHAMPTON.

MANUFACTURERS OF SANITARY APPLIANCES

Water Closets, Baths, Lavatories, &c.

PUMPS, WATER WORKS FITTINGS, PLUMBERS' AND ENGINEERS' COCKS, VALVES, &c.

PATTERN BOOKS SENT ON RECEIPT OF TRADE CARD.

A LARGE STOCK IS KEPT AT OUR NORTH DEPÔT,

69, WESTGATE ROAD, NEWCASTLE-ON-TYNE.

LONDON OFFICE, 9 FENCHURCH STREET, E.C

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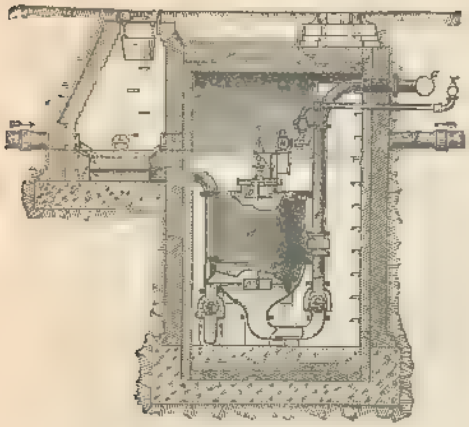
THE SHONE
HYDRO - PNEUMATIC SEWERAGE SYSTEM.



SHONE'S PNEUMATIC EJECTORS,

For Raising Sewage, Sludge, Pail Contents, Water, &c

ADVANTAGES:

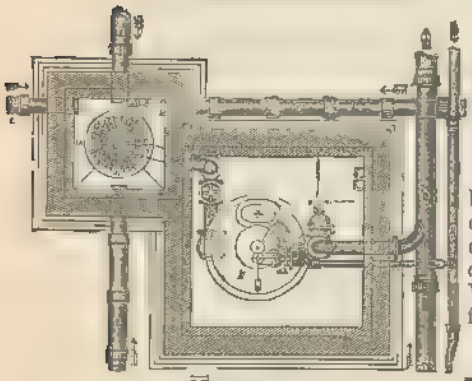
SEWAGE GAS NOT GENERATED.

IMPOUNDING OF SEWAGE ALTOGETHER PREVENTED.

SMALL PIPE SEWERS ONLY REQUIRED

Any number of Ejector Stations may be economically worked from one Air Compressing Station

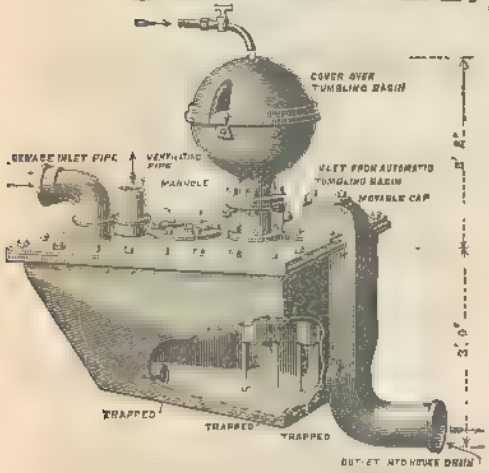
Each Ejector works Automatically, requiring no attention



REFERENCE

A, Pneumatic sewage ejector; B, Sewage Inlet ball-valve; C, Sewage outlet ball valve; D, Bell actuating automatic valve, D_1, Cup graduating automatic valve, D_2, Spindle or rod actuating automatic valve, E, Sewage inlet-pipe, F, Sewage outlet-pipe; G, Sewage delivery main (cast-iron); H, Automatic valve, I, Compressed air inlet pipe, J, Exhaust air outlet-pipe; K, Compressed air main (cast-iron), L, Gravitation stoneware pipe sewers, M, Grating to prevent sticks, &c., from entering ejector

The above system is in operation at a number of places, and has been adopted by the English Government for the drainage of the Houses of Parliament, Westminster, and by the Municipality for the drainage of Rangoon, Burmah, where works capable of dealing with the Sewage of a population of 42,000 people were opened by H.R.H. Prince Albert Victor, on 23rd December, 1889. The Ejectors are also used at Rangoon for the purpose of giving a high-pressure water supply to the town.



THE SHONE HOUSE SEWER EJECTOR,

OR

HYDRAULIC FLUSH TANK.

ADVANTAGES:

IT IS

AUTOMATIC IN ACTION.

A PERFECT TRAP AGAINST SEWAGE GAS.

CANNOT GET OUT OF ORDER.

THOROUGH IN ITS FLUSHING EFFECTS.

Easily Regulated for Times of Discharge.

Send for Circulars and Prices.

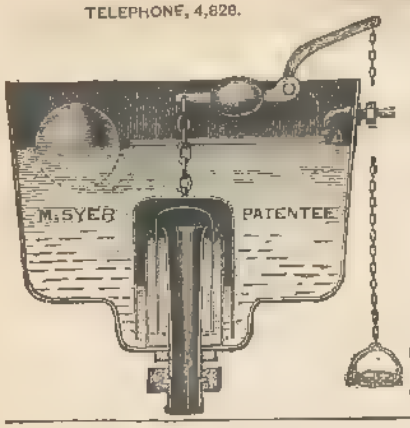
HUGHES & LANCASTER,

MANUFACTURERS, CHESTER.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

MILTON SYER, PATENTEE AND MANUFACTURER, 36, RYE LANE, PECKHAM, S.E.

TELEPHONE, 4,828.



THE 'PECKHAM' SYPHON CISTERN

AS SUPPLIED TO H.M. BOARD OF WORKS,

Is the Cheapest Valveless Syphon in the Market.

NO RUBBERS. NO VALVES.

SIMPLE AND SILENT IN ACTION. CERTAIN AND UNIFORM.
FLUSH OF TWO OR THREE GALLONS.

PASSED BY THE PRINCIPAL LONDON AND PROVINCIAL WATER COMPANIES.

REVISED PRICES.

Cast-Iron Cistern and Syphon 2 gall., 1½ in. union	12/6 each.
Best Quality " " fitted with Silent Valve and strong unions	15/- "
Galvanized " " " "	20/- "
Cast Iron Cistern and Syphon 3 gal., 1½ in. union	17/6 "
Best Quality " " fitted with Silent Valve and strong unions	21/- "
Galvanized " " " "	25/- "

THE 'TRENT' SANITARY CLOSET.

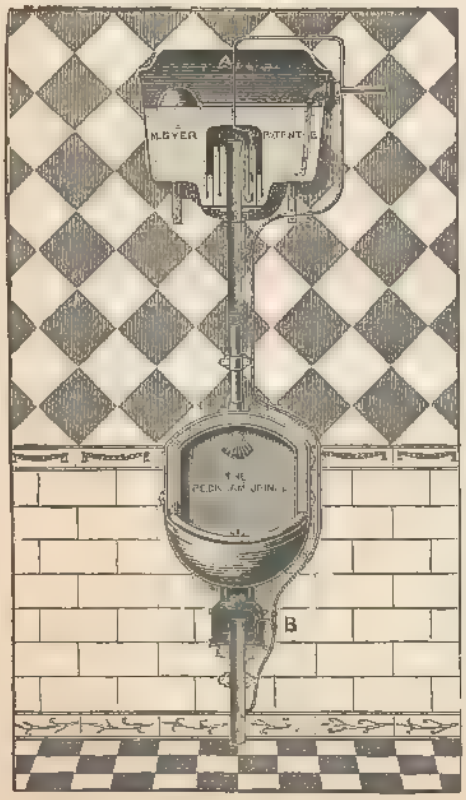
To use as a Urinal or Slop Sink lift the seat

"THE PECKHAM"

AUTOMATIC URINAL FLUSHING CISTERN

AND

SELF-FLUSHING APPARATUS.



The illustrations show my Patent Syphon Cistern and a Self-acting Apparatus attached to the waste outlet of a Urinal. The action is most simple and non mechanical, the actual using of the Urinal being all that is required to start the Syphon and thus flush at the time of use. It requires a very small quantity of water to start the Syphon, and thus no chance is given to corrosion as every part is thoroughly flushed with water at the time of use. It is a perfect preventer of waste of water as the Syphon cannot possibly be set going only by the use of Urinal, and it is an impossibility to leave the water constantly running. It is more effective than the usual Automatic Syphons which are set to flush at given intervals, as in my Apparatus the flush is given at the time of use only, thus giving the urine no chance to remain in the trap and corrode. Is arranged to give any desired quantity of water at a flush. There are no Valves of any kind no movement of mechanical arrangements, such as treadles, levers, push, taps &c., and thus has great advantages over the old systems. Can be attached to any Urinal. Perfect Water Waste Preventer. In use only when required.

PRICES.

Cast Iron Cistern Zinc Syphon and Apparatus	30/-
Galvanized ditto with Copper Syphon and Apparatus	40/-

TRENT SANITARY CLOSET

PRICES.

White and Neutral, painted inside and out	27/6
White or Ivory ..	23/-
Cane outside, painted inside	23/-
Cane and white	21/-
Mahogany or Walnut Seat and Brackets ..	23/-

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

MILTON SYER, PATENTEE AND MANUFACTURER, 36, RYE LANE, PECKHAM.

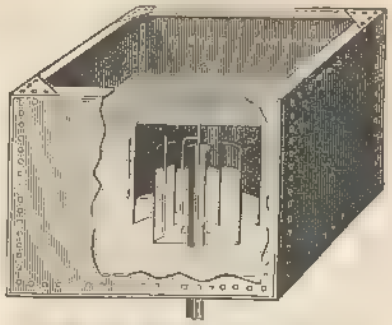
THE "TURBINE" SANITARY CLOSET.

HIGHLY ORNAMENTAL. To use as a Urinal or Slop Sink lift the Seat.

PRICES.		
	Ivory	33
	Cane and White	25/-
	Mahogany or Walnut Seat and Brackets	23/-

"THE PECKHAM" AUTOMATIC FLUSHING TANK;

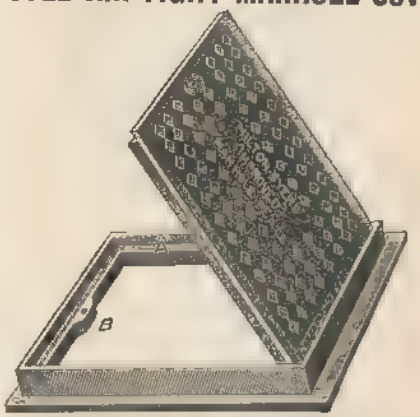
FOR LATRINES, DRAINS, URINALS, &c



PRICES.		
	20 Gallon Tank 3 in. outlet for 3 in. Flush Pipe	50
	30 " 3½ in. " 4 in. "	60/-
	40 " 3½ in. " 3½ in. "	70/-
	50 " 4 in. " 4 in. "	80

Special Prices for Larger or Smaller Sizes

"THE PECKHAM" IMPROVED AIR-TIGHT MANHOLE COVERS.



PRICES.		
	No. 1 Size 16 in. by 14 in. [illegible]	21/-
	No. 2 " 24 in. by 16 in. "	27/6
	No. 3 " 30 in. by 24 in. "	35/-

Can be had Galvanized if required.

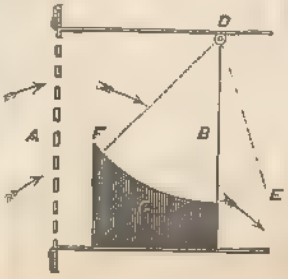
MICA FLAP FRESH AIR INLET VALVES.

FOR VENTILATING DRAINS

By the admission of fresh air and effectually closing the Vent to return of foul sewer gas. This Ventilator is most useful in all Sanitary improvements, and should be specified to be fixed

NOISELESS OUTLET VENTILATOR,

For Bedrooms, Libraries, &c.



THE PECKHAM IMPROVED.

PRICES.

For 3 in. pipe, painted, Cast Iron	5/6 Galv. with brass grating	7/-
For 3½ in. " "	8 " "	7/9
For 4 in. " "	6/6 " "	8/8

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

SHARPE BROS. & CO.,

Telegraphic Address—"SHARPE, SWADLINCOTE."

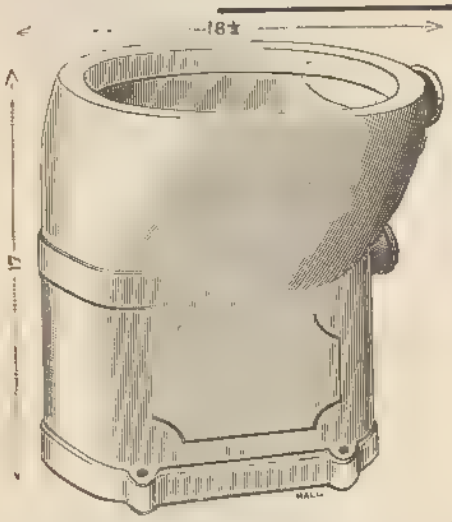
Patentees and Manufacturers of

London Office: 115, FORE ST., E.C.

Closet Basins, Traps, Urinals, Cabinet Tops, Plug Basins, Commode Pans, &c.

OF EVERY DESCRIPTION IN WHITE, PRINTED, & CANE COLOUR,

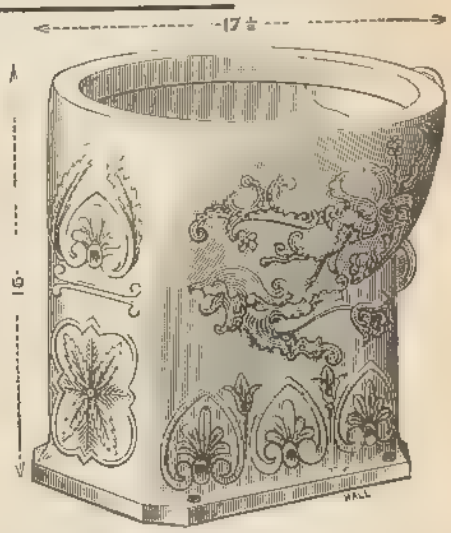
SWADLINCOTE POTTERIES, Near Burton-on-Trent.



THE SEVERN CLOSET.

This Closet is what is usually termed a Wash out, is made in one piece of Earthenware, and can be supplied with S or P Trap.

Cane and White..	15/-
Cane and Printed	18/-
White or Ivory	18/-
White and Printed inside	21/-
White and Printed in and out..	23/-



THE DERBY CLOSET.

This Closet is what is usually termed a Wash-out, is made in one piece of Earthenware, with raised Ornamentation, and can be supplied with S or P Trap.

White or Ivory	23/4
White and Printed Inside	26/8

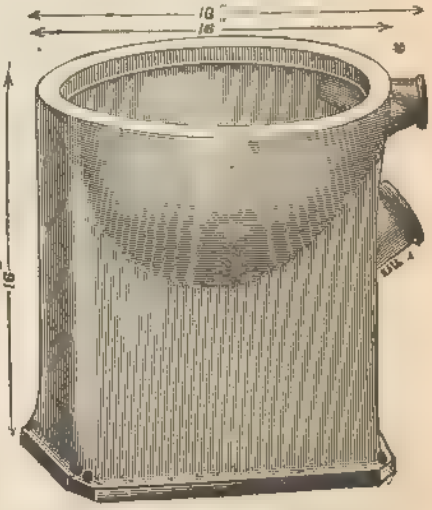
This Closet is what is usually termed a Wash-Out, but the outlet from basin (which in the ordinary Wash-Out is so great an eye sore) is not visible The Rim being Sharpe's Patent Rim, causes the Water to flush all parts of the basin thus securing a clean basin This Closet can be used with any 2-gal Water Waste Preventer that gives a quick flush

THE VICTOR.

Cane & White Basin & Cane & White Trap,	8/8	Printed,	10/-
White Basin " " " "	10/-	Printed,	12/-

Traps with Ventilating Pipe, 8d. extra.

The Victoria Closet is what is usually termed a Wash-Out, and is made in one piece of Earthenware. If fixed with hinged seat, it combines a Water Closet, Slop Sink, and Urinal.



THE VICTORIA CLOSET.

Cane and White ..	16/8	White	20/0
" Printed	20/0	White, & Printed inside	23/4
White, and Printed inside and outside			26/8

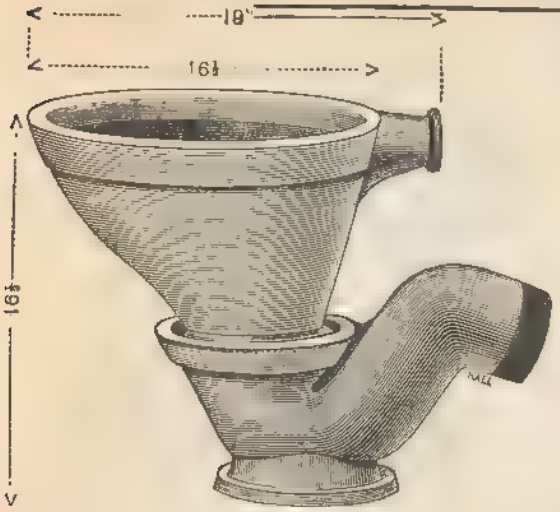
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address—
"SHARPE, SWADLINCOTE."

SHARPE BROS. & CO.,

London Office:
115, FORE ST., E.C.

SWADLINCOTE POTTERIES, near Burton-on-Trent.



THE HOUSEHOLD CLOSET.

The Household Closet is specially designed to supply the demand for a superior Closet that will work satisfactorily in conjunction with Water Waste Preventers. The Rim being Sharpe's Patent Rim, causes the water to flush all parts of the basin, and the water standing in bottom of Closet prevents the outlet from soiling, thus securing a clean basin.

SHARPE BROTHERS & Co having manufactured this Closet for some time, can confidently recommend it to any one requiring a Closet to work in conjunction with Waste Preventers.

White Basin and White Trap	.. .. ..	10/-
" Printed "	.. .. ..	12/-
" Gold Lines "	.. .. ..	14/8

Traps with Ventilating Pipe, 8d. extra.

THE ARISTON CLOSET.

(BEAN'S PATENT.)

The Ariston Closet has been specially designed for use as a Water Closet and Slop Sink combined.

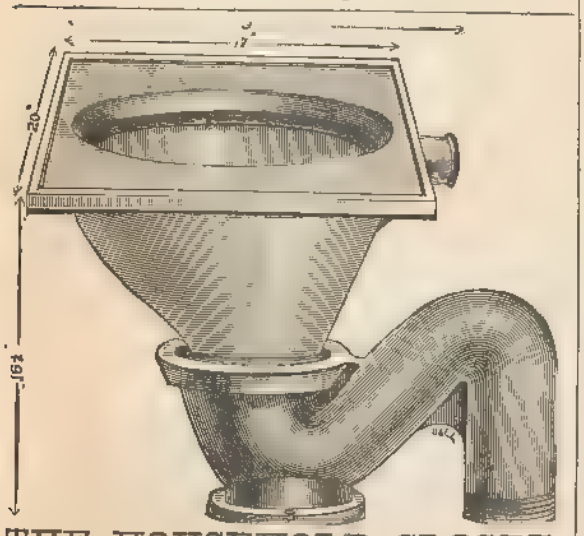
The enlarged funnel-shaped basin admits of slops being emptied without splashing over, while at the same time it does not interfere with the use of the basin as an ordinary Hopper Water Closet.

Where this Closet is used separate Slop Sinks may be dispensed with; care being taken to provide in connection with the Closet a flushing cistern giving a rapid discharge of water.

White Basin and White Trap	.. .. ..	23/4
" Printed	.. .. ..	26/8

The Basin with right hand or left hand side Inlet for Waste Pipe from Sink or Bath, 1s. extra.

Traps with Ventilating Pipe, 8d. extra.



THE HOUSEHOLD CLOSET.

WITH FIXED SLOP TOP.

White Basin and White Trap	.. .. ..	18/-
" Printed "	.. .. ..	20/8
" Gold Lines "	.. .. ..	23/4

Traps with Ventilating Pipe, 8d. extra.

THE MANOR CLOSET.

SHARPE'S PATENT FLUSHING RIM AND WEEPING HOLE.

This Closet is similar to No. 40a, excepting the Trap is made with a socket, so that the joint may be cemented on the outside, thus securing a perfect joint.

Cane and White Basin and Cane and White Trap	..	6/4
" " Printed " "	.. ..	7/8
White Basin " "	.. ..	7/8
" Printed " "	.. ..	9/-

All White Trap, 1s. extra.

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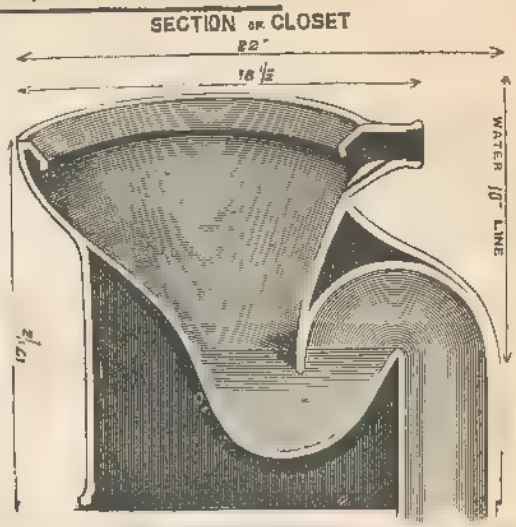
Telegraphic Address—"SHARPE, SWADLINCOTE."

SHARPE BROS. & CO.,

London Office: 115, FORE ST., E.C.

SWADLINCOTE POTTERIES, near Burton-on-Trent.

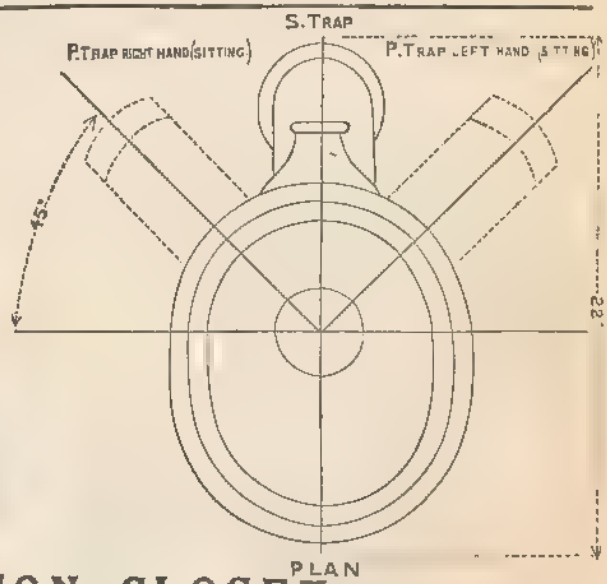


THE PRIMROSE CLOSET. (Registered No. 106177.)

The Primrose Closet is made in one piece of Earthenware, and is what is usually termed a Wash-down or Hopper Closet. The Rim being Sharpe's Patent Rim, causes the water to flush all parts of the Basin, and the water standing in bottom of Closet (*see section above*) prevents the outlet from soiling, thus securing a clean Basin.

The Closet is of an ornamental raised pattern, and, if fixed with a hinged seat, combines a Water Closet, Slop-sink, and Urinal. This Closet can be supplied either in S or P Trap.

White outside and inside .. 26/8 Printed .. 30/- | Majolica outside and white inside .. 32/- Printed .. 35/4



THE BURTON CLOSET.

The Burton Closet is made in one piece of Earthenware, and is designed to supply the demand for a self-contained Closet. The Rim being Sharpe's Patent Rim causes the water to flush all parts of the Basin, and the water standing in bottom of closet prevents the outlet from soiling, thus securing a clean basin.

N B.—This Closet will be supplied with S Trap, unless *specially ordered P Trap*. When ordering P Trap, state if required right-hand (sitting), or left-hand (sitting). *See Plan above.*

It is recommended that a three gallon Syphon Cistern should be fixed to this Closet.

White .. .. 20/- White, printed .. 23/4 White, Two Gold Lines .. 26/8

TRAPS WITH VENTILATING PIPE, 8d. EXTRA.

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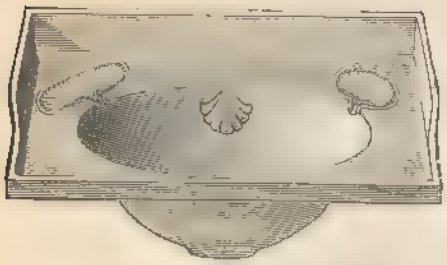
Telegraphic Address—
"SHARPE, SWADLINCOTE

SHARPE BROS. & CO.,

London Office:
115, FORE STREET E.C.

SWADLINCOTE POTTERIES, near Burton-on-Trent.



CABINET TOP.

Soap & Brush Tray Drained by Channels into Basin.

Size:—25 in. × 17½ in.; Oval Basin, 16½ in. × 12¾ in.

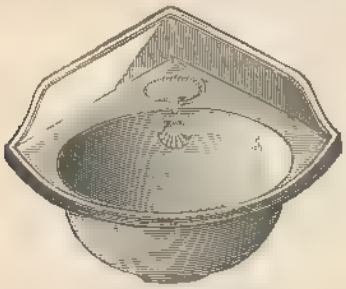
No. 333.	With Skirting	White	20/-	Marble	22/6
" 332.	Without "	"	17/6	"	20/-

CABINET TOP.

Soap & Brush Tray Drained by Channels into Basin.

Size:—22 in. × 16 in.; Oval Basin, 17 in. × 10 in.

No. 334.	Without Skirting,	White	14/8	Marble	16/8
" 335.	With "	"	18/-	"	20/8



CABINET TOP.

SOAP DRAINED BY CHANNEL INTO BASIN.

Size:—26½ in. × 23 in.; Length of Sides, 19 in.. Oval Basin, 17 in. × 14½ in.

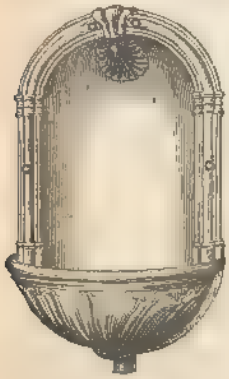
No. 338.	With Skirting	White	12/-	Marble	14/-
" 339.	Without "	"	10/-	"	12/-

CABINET TOP.

SOAP DRAINED.

Size.—29½ in. × 22½ in. Length of Sides, 21 in. Oval Basin 16 in. × 12½ in.

No. 303.	With Skirting,	White	17/4	Marble	20/-
" 302.	Without "	"	14/8	"	16/8



No. 18. CRADLE URINAL.

(Shell and Flow)

Height, 22in., Width, 15½in. Back to front, 14½in.

White	12/-
Marble	14/-

BEDFORD URINAL. No 16 & 16a.

(With Shell or Flow)

	No. 16.	No. 16a.
Height ins.	7	13½
Width "	12	8½
Back to front "	11¼	11
Cane and White	8	6.
White "	9/4	7/4
Marble	10/8	8/8

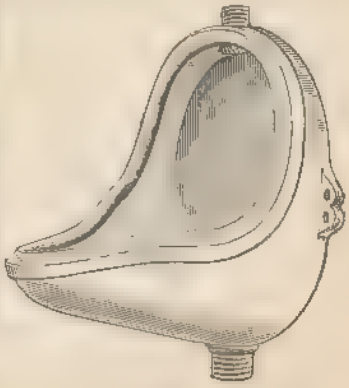
Flow, 1/- extra.

No. 82. LIPPED ANGLE BEDFORD URINAL.

With Flushing rim all round

Height 13 in. Width 15in. Back to front 17in.

White	12/-
Marble	14/-



No. 203. LIPPED URINAL.

(Flat at Back with Flow)

Height, 19 in., Width, 15in. Back to front 15in.

White	20/-
Marble	24/-

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

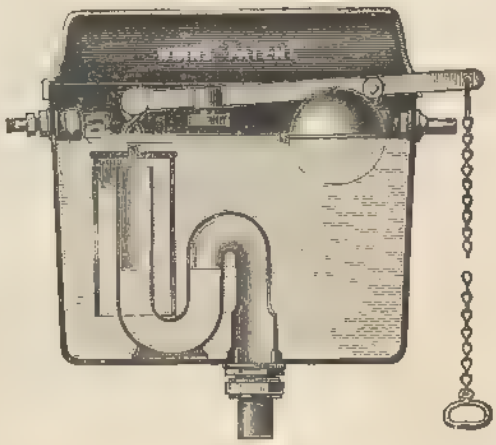
CHARLES WINN & CO.,

St. Thomas' Works, Granville Street, Birmingham.

LONDON—41, HOLBORN VIADUCT, E.C. LIVERPOOL—20, EXCHANGE ST., EAST. GLASGOW—26, RENFIELD ST.

WINN'S PATENT ACME SYPHON CISTERN.

PATENTED IN GREAT BRITAIN.



PATENTED IN THE UNITED STATES OF AMERICA.

No 1163.

ACTION AS FOLLOWS:

By pulling the lever, the cap is raised and the syphon charged, when the lever may instantly be released, as the water will continue to run till the cistern is empty, the velocity of the flush INCREASING to the end of the discharge.

Any given quantity of water—usually Two Gallons—is used at each flush, *neither more nor less*, thus economising and preventing waste of water, and at the same time ensuring an efficient flushing of the closet.

Apart from the ball valve, as will be seen by the drawing, there are absolutely no valves, leathers, rubbers, or joints to wear away or get out of order, and all angles are rounded and cistern tapered to prevent breakage by frost.

Price in strong Cast-Iron,	Painted,	with Galvanised Chain and Handle,	1 Gal.	20/-; if all Galvanised,	26/-
Ditto,	ditto,	ditto,	1½ „	20/-; ditto,	28/-
Ditto,	ditto,	ditto,	2 Gals.	20/-; ditto,	28/-
Ditto,	ditto,	ditto	2½ „	23/-; ditto,	31/-
Ditto,	ditto,	ditto,	3 „	23/-; ditto,	31/-
Ditto,	ditto,	ditto,	4 „	28/-; ditto,	38/-
Ditto,	ditto,	ditto,	5 „	33/-; ditto,	45/-

Brackets for fixing Cisterns: In Cast-Iron .. Painted 1/6; if Galvanised	2/6 per pair.
Ditto, ditto, Wrought-Iron, „ 2/-; „	3/- „
Patent India-rubber Connection from Pipe to Closet Basin	1/6 each
Extra, if Cistern have Brass Pull and Porcelain Handle	1/6 „
„ „ „ Plated Chain and Ebony Handle	3/6 „
„ „ „ Syphon Fittings for 1½-in. Fall Pipe	2/6 „
„ „ „ ¾ Ball Valves for Low Pressure	2/- „

This flushing-box is intended for use with the various patterns of our Granville and Free Flushing Closet Pans now so much in vogue, and also with the usual common basin and trap, whether cottage or hopper shape; is approved and authorised for use by the Birmingham Water Works Authorities, also by the London and leading Provincial Companies, is now largely used in Barracks, Workhouses, and Her Majesty's Prisons throughout the country, and adopted by the leading Railway Companies, while more than FORTY THOUSAND HAVE BEEN SOLD to the general Trade, and a quantity exported to foreign countries.

Please state when ordering whether Ball Cocks are wanted for high or low pressure.

NOTE—The above cistern is supplied to flush automatically, at same prices.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CHARLES WINN & CO.,

St. Thomas' Works, Granville Street, Birmingham.

LONDON—41, HOLBORN VIADUCT, E.C. LIVERPOOL—20, EXCHANGE ST., EAST. GLASGOW—26, RENFIELD ST.

WINN'S IMPROVED ELASTIC-SEATED VALVE CLOSETS.

We believe these closets to be the very best apparatus extant for first-class dwellings, as they have been approved and specified by architects throughout the kingdom for many years, while at the present time their use is extending.

Though the various forms of washout closets now offered have their undoubted advantages, still the medical profession prefer this type of closet because the soil falls immediately into water of sufficient depth to entirely cover it, preventing stench and infection, moreover, when the handle of the closet is lifted the soil is the first thing which goes the water immediately following and in sufficient volume to entirely prevent any foul air from passing upwards into the room, in fact the action is similar to that of an injector, as fresh air is carried with the water into the soil pipe, the outlet of the basin being central, the water coming to it from all sides.

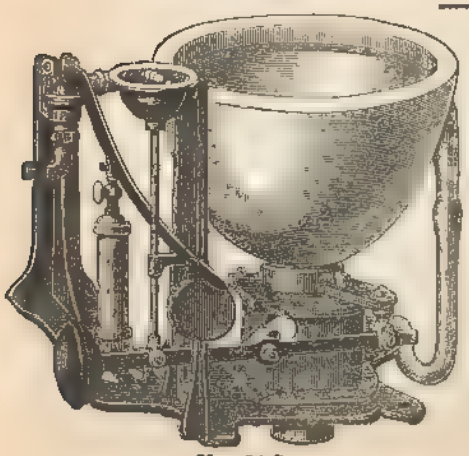
It should be noted that the inlets to these basins are straight, which causes the water to divide and flush each side of the basin equally, avoiding the whirling motion and consequent retention of the soil, which occurs when side arm basins are used; also that the flush of water is strongest where most needed, *i.e.*, at the back of the basin, where the soil strikes—everyone will have noticed how defective all side outlet closets (of which we make none) are in this respect.

These closets are almost noiseless in action, substantially and very carefully made, all being tested before leaving our works, they are of the very best quality possible to manufacture, and as a guarantee we cast our name and the words "Best Quality" on each one, together with the pattern number as below, which kindly note.

No. 214.

No. 214.

	£	s.	d.
Special best quality elastic-seated Valve Closet, as drawn, on strong iron frame, with brass dish, polished and lacquered, porcelain grip, and white flushing rim basin	2	15	0
If complete with best round valve, ball lever, three cranks, and copper wire	3	1	6
If ornamental basin ... ... 2/- extra.			
If gold lined " ... ... 10/- "			
If made in Winn's "Commercial Silver," solid metal, all parts in sight 5/- "			
If nickel-plated ... ... 7/6 "			
If arranged with silvered glass valve 5/- "			



No. 208

No. 208.

	£	s.	d.
Special best quality elastic-seated Valve Closet, fitted with 1-inch self-closing supply valve and patent brass regulator, adjustable to leave any desired height of water in the basin, with polished and lacquered brass dish, porcelain handle, and white flushing rim basin	4	4	0
If ornamental basin ... ... 2/- extra.			
If gold lined " ... ... 10/- "			
If with 1¼-in. supply valve ... ... 4/- "			
If made in Winn's "Commercial Silver," solid metal, all parts in sight ... 5/- "			
If nickel plated ... ... 7 6 "			
If arranged with silvered glass valve ... 5/- "			

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address:—
DONBOWES LONDON.

Telephone—
No 3199.

BOWES ✦ SCOTT ✦ & ✦ WESTERN,

BROADWAY CHAMBERS,
✦ WESTMINSTER, LONDON. ✦

SOLE LICENSEES & MANUFACTURERS OF MR. ROGERS FIELD'S PATENTS.

GOLD MEDAL,
INTERNATIONAL HEALTH EXHIBITION, 1884.

ROGERS FIELD'S
NEW ✦ "1889 ✦ PATENT" ✦ SELF-ACTING ✦ SIPHON

For building into Brick or Concrete Chambers for periodically flushing Town Sewers, and

SELF-ACTING GALVANISED IRON FLUSHING CISTERN,

Fitted with Rogers Field's New "1889 Patent" Annular Siphon, for Drains of Public Buildings and Private Mansions.

The NEW "1889 PATENT" is as much in advance of Mr. FIELD'S old pattern (but still very successful) Siphon, as that of all other Siphons.

This NEWLY INVENTED SIPHON of Mr. FIELD'S is undoubtedly the most perfect one—both theoretically and practically—that has yet been made. It has no moving parts, is absolutely automatic, and will start with the smallest dribble from a tap or other supply

Rogers Field's Patents are used, among other places, in the Residences of

H.R.H. the Prince of Wales. H.R.H. the Duke of Edinburgh.
H.R.H. the Duke of Connaught. H.R.H. the Duchess of Albany.

And also used and recommended by the

Local Government Board. Home Office (Prisons Department).
War Office (Army Sanitary Committee). Office of Works.
London School Board.

Some of its advantages over the old pattern Siphon are as follows:—

IT IS

More Certain and Regular in its Action. More Readily Fixed.
More Easily Adapted to Special Circumstances.
More Economical of Water.

This new Siphon can be made much shorter than the old one to suit cases where the Drains are laid near the surface which was before impracticable, owing to the minimum length at which the old pattern Siphon would work.

Prevents dangerous Deposits in Drains, and the liability to the evil effects of Sewer Gas.

PHONS made in Cast and Galvanised Wrought Iron, Zinc, Stoneware, and other materials, and in different sizes to suit various Diameters of Drains.

FLUSHING CISTERNS made in Sizes from 2½ gallons to 200 gallons and upwards.

SIPHONS for building in Brick or Concrete Chambers may be had with **TRAPPING BOXES** complete, already fitted together so that they can be easily connected with the Sewers or Drains.

ROGERS FIELD'S PATENT AUTOMATIC FLUSH TANK, or Fat and Grease Interceptor

For disposal of House Slops from Scullery Sinks, &c., by Irrigation. *Recommended by the Authorities.*

BOWES SCOTT & WESTERN'S PATENT SEWAGE LIMING MACHINE.

For treating Sewage with Lime or other Chemicals, which are reduced to the finest possible state of sub-division. There is no waste, and the Grinding and Mixing of the Precipitants is effected in one operation.

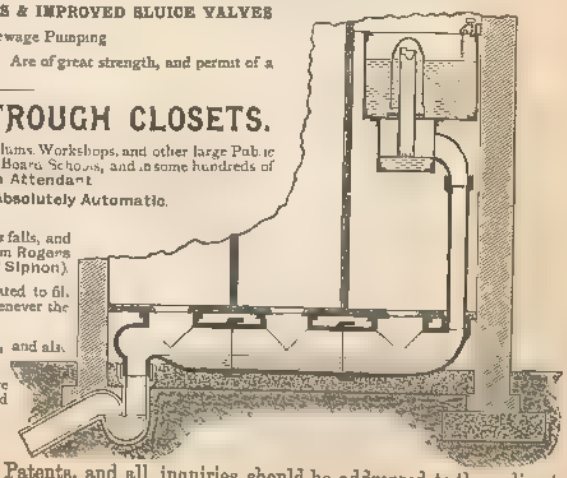
BOWES SCOTT & WESTERN'S PATENT AGITATOR, or PERFECT STIRRER. For mixing Chemicals with Sewage, &c., and as a Gyle Rouser for Breweries. In use in Chemical Works, Dye Works, Tanneries, Sewage Works, Bleach Works.

TOWN WATER & DRAIN FITTINGS. "CATCH-LOCK" SURFACE BOXES & IMPROVED SLUICE VALVES

TURBINES and DIRECT-ACTING PUMPS. For Sewage Pumping

SHARP JONES & CO.'S ROCK CONCRETE TUBES (Silicated) for Sewers. Are of great strength, and permit of a perfectly Water-tight Sewer being made.

Bowes Scott & Read's Patent SELF-CLEANSING TROUGH CLOSETS.



Suitable for Factories, Schools, Barracks, Hospitals, Prisons, Workhouses, Asylums, Workshops, and other large Public Institutions. These Latrines have been fitted in a very large number of London Board Schools, and in some hundreds of Country Board Schools. They are Self cleansing, and do not require an Attendant.

Readily fixed, with certainty of action. Absolutely Automatic.

No Valves, Plugs, or Working Parts.

The Trough always retains a little water at the bottom, into which the *excreta* falls, and this is automatically flushed out at intervals by a volume of water discharged from Rogers Field's Patent Flushing Cistern (now fitted with his New "1889 Patent" Siphon).

By means of a small constant dribble of water from a tap, which can be regulated to fill the cistern at stated periods as desired, the Trough is effectively flushed out whenever the cistern becomes full.

These Latrines are supplied in Salt Glazed or Enamelled Earthenware, and also as open Troughs in Cast Iron for various widths of W.C.'s.

When ordering, state the centres required, *i.e.*, the distance from centre to centre of seat holes. In arranging the W.C.'s more space should be allowed for the end ones so as to take the inlet and outlet.

TROUGH URINALS on the same principle.

BOWES SCOTT & WESTERN are the sole Licensees of these Patents, and all inquiries should be addressed to them direct.

Special Quotations given for Sanitary Appliances and Town Water Fittings, &c.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Sanitary Earthenware

THOMAS W. TWYFORD

Cliffe Vale Pottery,

HANLEY, Staffordshire.

SPECIALITIES.

UNITAS	DELUGE
NATIONAL	ALLIANCE
TORNADO	CROWN

W. C. Basins, with Cisterns, Seats, Brackets, &c

"CARDINAL" & "IDEAL" Lavatory Basins, Complete

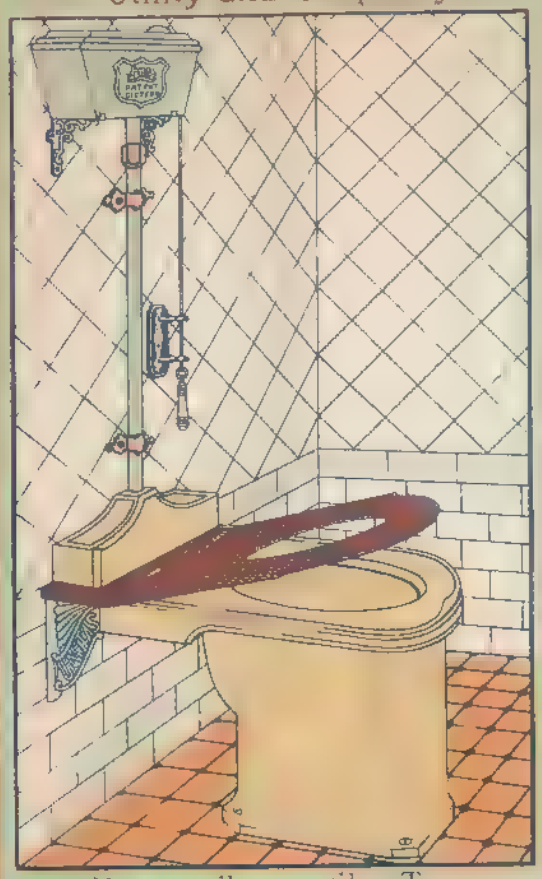
ALLBUT & DANIEL LITHO HANLEY

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

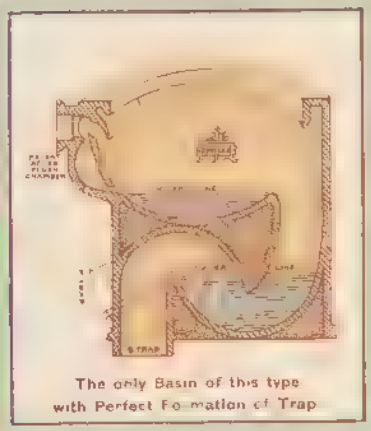
THE Perfection of Cleanliness Utility and Simplicity.

Twyford's UNITAS

Combining Water Closet Basin Urinal & Slop Sink



No 4 Shewing Slop Top.



The only Basin of this type with Perfect Formation of Trap

No 1 Raised Ornamentation, "[illegible] Pattern Whiteboard Ware

No 8 "Dahlia" Pattern [illegible] Ware

No 3 Strong Fire Clay, [illegible]

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

TWYFORD'S PRICES OF "UNITAS" W. C. Basin, with Patent After-flush Chamber.

No.		White	Ivory	Paper Boxes White	Paper Boxes Ivory
1	Raised Ornamentation, Florentine Pattern	42 -	49 6	7	7 6
2	Plain without any ornamentation	38 -	44 6	6 6	7 -
3	Strong Fireclay, white enamelled inside	32/	..	6	
*4	Raised Ormamentation, Florentine Pattern with Slop Top	72,	79 6	7 -	7/6
5	Raised Ornamentation, Oak Pattern	42/-	49 6	7/	7 6
6	Marbled on White Ware	53 -	..	8 -	
7	Raised Ornamentation, Celadon Ware .. 77/-; Boxes, 12/6				
8	Printed Blue, Dahlia Pattern, on White Ware	58 -	..	8	
9	Ditto Brown, Florentine Pattern, on Ivory Ware		64 6	..	8/6
10	Ditto Blue, ditto ditto White ditto	58	..	8 -	
11	Ditto ditto ditto ditto and traced in gold on White Ware	153	.	17 6	
12	Raised Ornamentation, Florentine Pattern, traced in gold	136	144	15	16 6
13	Raised Ornamentation, Oak Pattern, colored	69 6	77 -	11 6	12 6
14	Raised Ornamentation, Florentine Pattern, as No. 12, but traced in blue instead of gold	77 6	85 -	12 -	13

*No 4 is No. 1 with Slop Top. Except No. 3 all other numbers are made with Slop Top at 30 - extra.

SEATS WITHOUT FLAP.

Dantzic Oak, Walnut or Mahogany, Best Quality, 18/-
Walnut or Mahogany only, Ordinary, 14/-
Plain White Wood, 12/

Unless ordered to contrary, best quality is always sent.

SEATS with HINGED FLAP.

Dantzic Oak, Walnut or Mahogany, Best Quality, 33/-
Walnut or Mahogany only, Ordinary, 27/-
Plain White Wood, 24/-

Unless ordered to contrary, best quality is always sent.

SELF-LIFTING SEAT WITHOUT FLAP.

with Levers and Weights specially recommended for Hotels, Public Buildings, &c.

Price including Brass Levers and Iron Weights:

Dantzic Oak	Walnut or Mahogany	Plain White Wood
35/-	32/-	26/-

CISTERN BRACKETS AND PULLS.

No. 14.

	PAINTED	GALVANIZED
2 Galls.	1/6	2/6 per pair
3 ,,	2/6	3/6 ,,
2 Galls. with part.	2/6	3/6 ,,
3 ,, ,,	3/6	4/6 ,,

No. 17 Chain Pull and Ivory Handle

Brass	Nickel Plated
1/6	2/9

No. 18. Pendant Pull and Ebonized Block.

Burnished Brass	Nickel Plated
7/6	13/6

SEAT BRACKETS.

		PAINTED	GALVANIZED
No. 5.	Seat Bracket	6/-	8/6
No. 6.	,, Pedestal	9/-	13/-
No. 7.	,, Brackets for Closets with Slop Top	5/	7/6
No. 8.	,, Do. Pedestal	9/-	13/-

CISTERNS.

No. 10. NATIONAL PATENT NOISELESS SYPHON CISTERN.

	PAINTED	GALVANIZED
2 Gallons	21/-	27/-
3 ,,	23/-	31/-

Including Ballcock and Overflow Nozzle.

No. 11. NATIONAL PATENT NOISELESS SYPHON CISTERN WITH PARTITION.

Forming Double Valve Waste Preventing Cistern.

	PAINTED	GALVANIZED
2 Gallons	25/6	31/6
3 ,,	27/6	35/6

Including Ballcock, &c.

No. 12. UNITAS PATENT NOISELESS SYPHON CISTERN.

With Patent "Clack" Valve and Float.

	PAINTED	GALVANIZED
2 Gallons	32	39/6
3 ,,	36/-	45/-

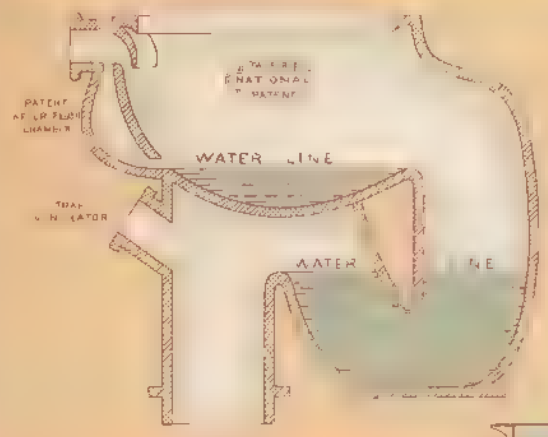
ALLBUT & DANIEL LITH HANLEY

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

100,000 — THE — NOW IN USE.

"NATIONAL"

PATENT SIDE OUTLET CLOSET & TRAP.



PRICES:

... and Trap (in One Piece), with or without Ventilator on Trap · White, 30 -; Blue, 36/-; Printed Flown Colours, 42/-
... Trap (in Two pieces). White Basin and Trap, 19/3; Blue Basin and Trap, 24 -; Printed Flown Colours and Trap, 30/-
WITH BASIN VENTILATOR, 1/6 EXTRA.

ALLIANCE

FRONT OUTLET CLOSET AND TRAP.

Simple

Cleanly

Effective

PRICES: [illegible]

CROWN

SANITARY CLOSET, BASIN & TRAP.

Strong

Cheap

Simple

Made in Two pieces only with S or P Trap.

PRICES—

Fire Clay Basin and Trap .. .
Blue Printed Basin and Trap.. [illegible]
White Basin and Cane Trap .
White and Blue Printed Basin and Cane Trap [illegible]

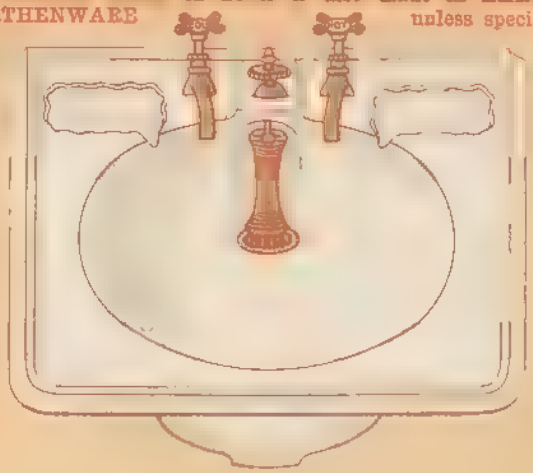
From the collections of Sydney Living Museums / Historic Houses Trust of NSW

"CARDINAL" THE Lavatory Basin, "Patent"

EARTHENWARE unless specially ordered Brass.

The most perfect Sanitary Lavatory Basin yet introduced.

The fittings are all in sight. The entire overflow and fittings being placed in a recess formed inside the Basin, can be easily removed and cleansed by any unskilled person.



No. 90—OBLONG.

and Overflow, and 2 Supply Cocks.

No. 90 OBLONG.

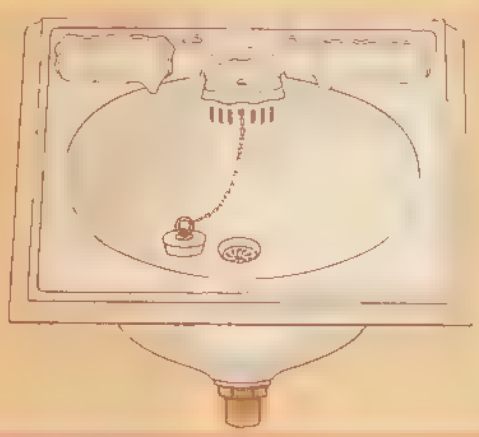
29" × 24", Basin 21½" × 17"—93/- Complete

26½" × 21½" ,, 21" × 15"—71/6 ,,

22" × 18" ,, 17" × 12"—60/- ,,

Medium and Small sizes are also made with back and sides.

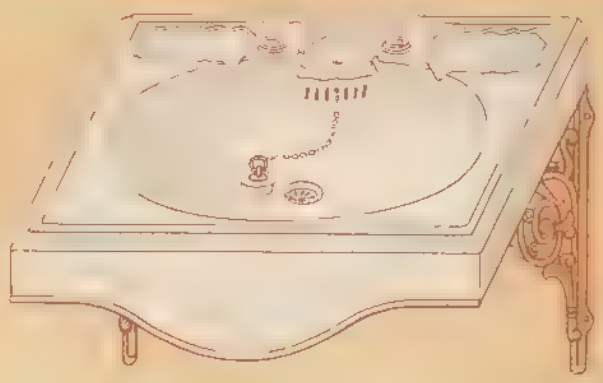
"IDEAL" THE Lavatory Basin, "Patent"



No. 50—OBLONG

With "Ideal" Patent Overflow and Waste, Brass Waste Connection, and Rubber Plug with Chain.

	LARGE.	SMALL.	
Two Sizes. BASIN (oval),	26½ × 20½ in. 21 × 15 ,,	22 × 18 in. 17 × 13 ,,	52/6 / 37/6



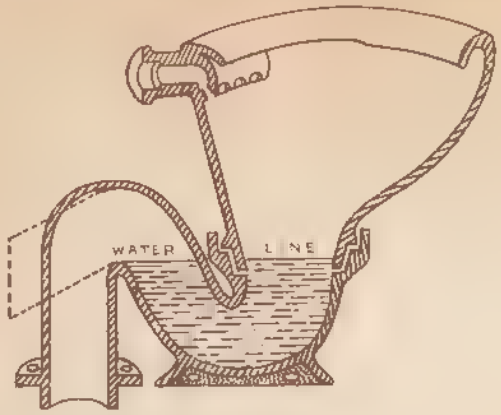
No. 70—OBLONG with Facia.

"Ideal" Patent Overflow and Waste, Brass Waste Connection. Rubber Plug with Chain, and Wall Brackets with Patent Fastenings.

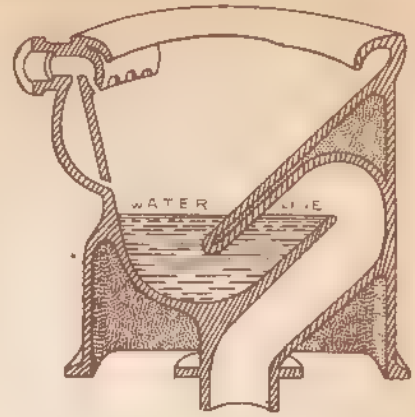
	LARGE.		
Two Sizes. BASIN (oval)	26½ × 20½ in.		90/- / 75/-

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

3+8



SECTION—2 PIECES.



SECTION—S TRAP—1 PIECE.

TWYFORD'S PRICES OF "DELUGE" Wash Down Closet Basin.

	PRICES of "Deluge," with Paper Boxes, including Patent After-flush Chamber—In One Piece.	White	Ivory	Paper Boxes White	Paper Boxes Ivory
1	Raised Ornamentation Florentine Pattern	42 -	49 6	7/	7.6
2	Plain, without any ornamentation	38/-	44/6	6.6	7/-
3	Strong Fireclay, white enamelled inside	32/-		6	
*4	Raised Ornamentation, Florentine Pattern, with Slop Top	72 -	79 6	7	7 6
6	Marbled, on White Ware	53/-		8	
7	Raised Ornamentation, Celadon Ware ... 77/-; Boxes, 12/6	58 -		8,-	
8	Printed, Blue Dahlia Pattern, on White Ware		64/6		8 6
9	Ditto Brown Florentine Pattern, on Ivory Ware	58/-		8,-	
10	Ditto Blue ditto ditto White ditto	153,		17/6	
11	Ditto ditto ditto ditto and traced in gold on White Ware	136	144.	15	16 6
12	Raised Ornamentation, Florentine Pattern, traced in gold	77 6	85 -	12,-	13 -
14	Raised Ornamentation, Florentine Pattern, traced in blue				

Basins Printed inside, 6/- extra. Flown Colours, 12/- extra.

Basins made without after-flush, 2/- each less.

* The No. 4 is No. 1 with Slop Top. Excepting No. 3 all other numbers are made with Slop Top, at 30/- extra.

THE "DELUGE" IN TWO PIECES WITHOUT AFTER FLUSH BASINS MADE WITH AFTER-FLUSH 1/- EACH EXTRA.	Cane	Cane and Printed	All White	White and Blue Printed	White and Printed Neutral Colour Convolvulus Pattern
For either Earthenware or Lead Trap Basin only	8/-	9/-	9/-	10/6	12 -
Earthenware Trap for Basin only	4	..	5/-		
For either Earthenware or Lead Trap, Basin only, with fast slop top	.	..	35.-	40/-	45
Earthenware Trap for Basin only	4/-		5/-		

ALLBUT & DANIEL LITH^ HANLEY

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Simple Cleanly Effective

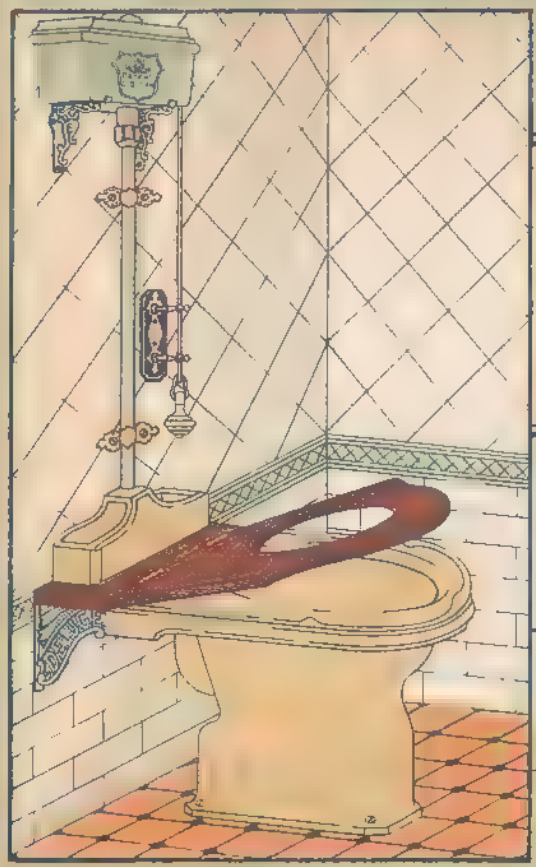
TWYFORD'S

DELUGE

Wash Down Closet Basins,

Combining Water Closet, Basin, Urinal & Slop Sink.

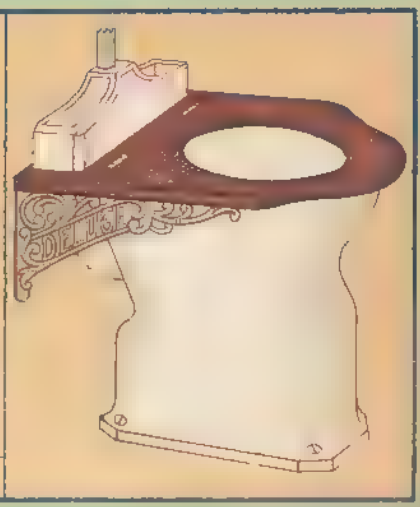
Made in One or Two pieces with S or P Trap.



No. 4 Showing Slop Tap

No. 1.
Raised Ornamentation, "Florentine" Pattern, White or Ivory Ware.

Deluge Basin and Trap S or P in 2 pieces.

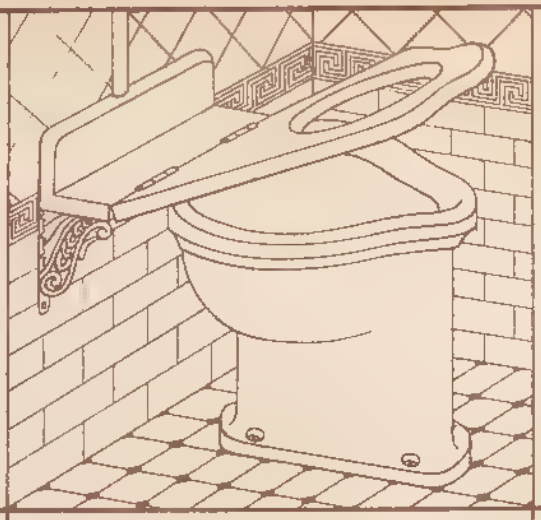


No. 2.
Plain Ivory or White Ware.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

"TORNADO"

FROM **50/-** COMPLETE INCLUDING Seat & Cistern



FROM **50/-** COMPLETE INCLUDING Seat & Cistern

PRICES

	£	s.	d.
Fireclay Basin, No. 3, with white wood seat, "Tornado" cistern and brackets, painted, with brass chain pull	2	10	0
White Basin, No. 2, ditto ditto ditto ditto	2	15	0
With mahogany seat ... extra	0	3	0
With galvanized iron flushing pipe ... do.	0	12	0
With lead flushing pipe ... do.	0	9	0
With patent ind a rubber connection, 1¼" ... do	0	1	6
With galvanized cistern and brackets instead of painted ... do.	0	5	0

Prices of Basins only:-

No. 2.	Plain White, S. or P Trap ... each	1	5	0
	Ivory ditto ... do.	1	7	6
No. 3.	Strong Fireclay ditto White enamelled inside ... do.	1	0	0
No. 4.	Printed Virginia Pattern, Blue outside ... do.	1	12	6
No. 5.	Printed Convolvulus Pattern, Flown Colours outside ... do.	1	16	0

Basins Printed inside only, 4/6 each. Flown Colours, 9/- each extra.

	Mahogany 14/- Painted	White Wood 11/- Galvanized
Seat for above ... each		
"Tornado" Cistern for above ... do	17/6	22/6
Cistern Brackets ... per pair	1/6	2/6

The "Tornado" is guaranteed to be perfectly efficient when fixed in connection with the "Tornado" 2 gallon Flushing Cistern.

ALLEN & DANIEL LTD HANLEY

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HARPER TWELVETREES, LAUNDRY ENGINEER,

8, City Road, London, E.C., & Imperial Ironworks, Feniscowles, Lancs.

STEAM LAUNDRIES, PUBLIC INSTITUTIONS, MANSIONS, STEAMSHIPS, &c.,
Fitted in the most perfect and satisfactory manner by contract. ESTIMATES FREE.

HARPER TWELVETREES has special facilities for fitting up Laundries, Large or Small, in the most Approved, Economical, and Efficient manner, and on the most Modern Principles.

SPECIALTIES FROM HARPER TWELVETREES' CATALOGUE.

UNDER-DRIVEN HYDRO.

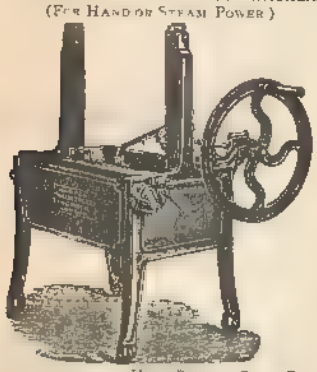
This is a very convenient pattern, safe to the user and occupying little space. The cumbrous counter-gear, so great an objection in the ordinary form of Under-Driven Hydro, is entirely dispensed with. The counter gear shown in the illustration is fixed overhead.

PRICES, including Counter-Gear

25 inch Cage	£42	32 inch Cage	£57
30 " "	52	36 "	62

"WILLIAMSON" PATTERN WASHER.

(FOR HAND OR STEAM POWER.)



	Hand Power	Steam Power
3 ft. 6 in., 20 shirts	£8 0	£14 0
4 ft. 6 in. "	9 10	15 0
4 ft. 6 in. "	11 0	17 0

"DECOUDUN" IRONER.

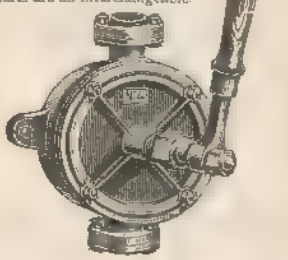
HEATED BY STEAM, GAS, OR FURNACE.

PRICES.	Hand	Steam
36 inch Roller	£10 10	
42 " "	30	£40
54 " "	40	60
72 " "		120
108 "		150
120 " "		260

Further particulars on application.

HAND PUMPS.

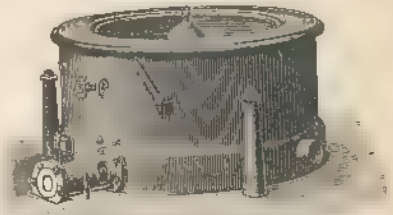
These Pumps are the most convenient things possible for a laundry, and can be used for raising water from wells, pumping hot water from coppers to washing machines, filling and emptying tanks, rinsing vats, &c. They can be fixed to a wall or plank by anyone in a few minutes, and may be used with Iron or Rubber Pipe. Being double-acting, they draw instantly, and cannot get out of order. The parts are all interchangeable.



No.	Gallons per Minute.	Size of Pipe.	PRICE.
1	4	½ inch	£1 10
2	6	1 inch	2 5
3	20	1½ inch	3 15
4	30	2 inch	6 [illegible]

Larger Sizes made for Hand or Steam Power.

DIRECT-DRIVEN SUSPENDED HYDRO.



This Hydro is driven by a small double-acting Steam engine attached to the outer casing. No foundation is required and no vibration communicated to the ground. Full speed is obtained in half the usual time. The working parts are few and provision made for adjusting anywhere.

30 inch Cage	£75
36 " "	90
42 " "	105
48 " "	120
54 " "	135

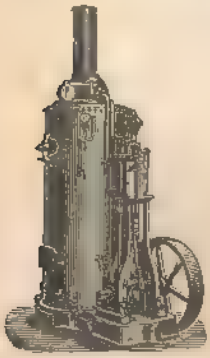
"VILLA" WASHER.

"BOW TOP" PATTERN, with Wood Wringing and Mangling Rollers.

	£	s.	d.
Small size, 6 Shirts, 20 inch Rollers	5	10	6
General " 8 " 22 " "	6	11	6
School " 12 " 24 " "	7	12	6
Laundry " 15 " 27 " "	8	13	6

Brass Tap, 5/0 extra.

STEAM BOILERS.



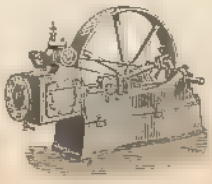
VERTICAL.

½ Horse Power	£12
1 " "	16
2 " "	24
4 " "	34
6 " "	47
8 " "	55

CORNISH.

4 Horse Power	£50
6 "	60
8 " "	75
10 " "	95
12 " "	105
15 " "	120
20 " "	140

STEAM ENGINES.



VERTICAL.

½ Horse Power	£12
1 " "	15
2 " "	21
4 " "	33
6 " "	46
8 " "	60

HORIZONTAL.

2 Horse Power	£24
3 " "	27
4 " "	30
6 " "	45
8 " "	60
10 " "	70

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WINSER & CO., SANITARY ENGINEERS, 52, BUCKINGHAM PALACE RD., LONDON, S.W.

WINSER'S CHANNEL PIPES AND BENDS.

These Bends are specially designed to remedy the defects which are found by practical experience to exist in those hitherto in use. The outer side is carried higher than the inner, and curved over (see section), so that the sewage, as it rises in passing round the bend is concentrated and folded over like a wave, and turned in the direction of the out-go. They are all made with sockets, and of the best cream enamelled ware. They are thus exceedingly strong, and are non-corrosive. Having a broad flat rebated base, they are easily fixed, and it is almost impossible to set them out of their proper level.

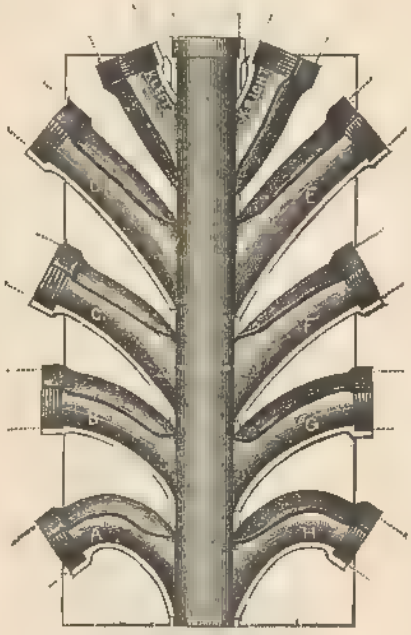
(Registered.)
Cream Glazed Internally.

STRAIGHT CHANNELS.

	4 in.	6 in.	9 in.	
2 ft. 0 in.	2	2/8	4 -	each.
2 ft. 6 in.	2 6	3 4	5/-	,,
3 ft 0 in	3/-	4 -	6/-	,,

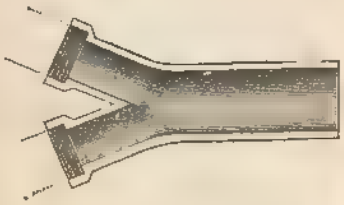
4 in., 3/6 6 in., 5/- each.

4 in., 3/6, 6 in., 5/- each.



A, B, C, D, K, 4 in., 2/6 — WINSER'S CHANNEL BENDS. — E, F, G, H, K, 6 in., 3/6

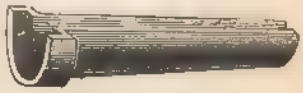
Y—JUNCTION CHANNELS.



2 ft	4
2 ft 6 in	4 9
3 ft	5/6

TAPER CHANNELS.

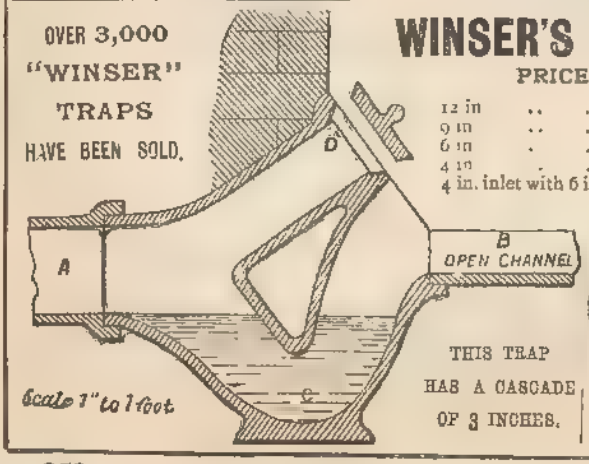
(With Sockets on either end.)



	6 to 4 in.	9 to 6 in.	
2 ft 0 in.	3/-	4/6	each
2 ft 6 in.	3/9	5/6	,,
3 ft. 0 in	4/6	6/6	,,

WINSER'S INTERCEPTING SEWER TRAP.

OVER 3,000 "WINSER" TRAPS HAVE BEEN SOLD.



PRICES.

12 in	50/-
9 in	21/-
6 in	10/-
4 in	8
4 in. inlet with 6 in. outlet	9/6

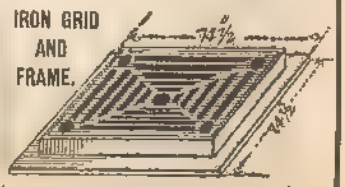
REGISTERED.

A Outlet to Sewer
B Half Channel Pipe, inlet from House.
C Dip of Trap 2½ in.
D Is for clearing the drain beyond the Trap, and is provided with Moveable Cap and Stanford Joint.

THIS TRAP HAS A CASCADE OF 3 INCHES.

GALVANIZED STEP IRONS, 1/9 each.

IRON GRID AND FRAME.



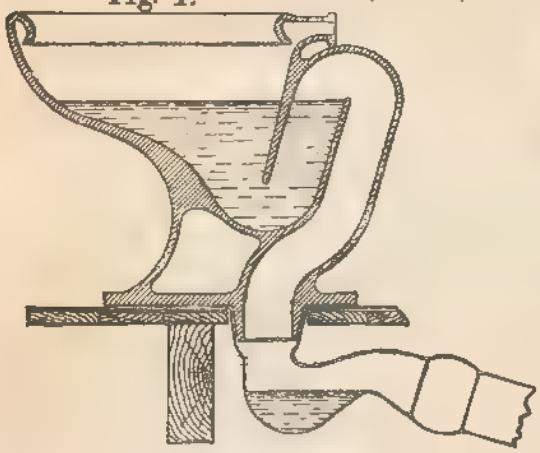
Painted, 5/- Galvanised, 7/-

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WINSER & CO., SANITARY ENGINEERS, 52, BUCKINGHAM PALACE RD., LONDON, S.W.

'DECECO' SYPHON CLOSET

Fig. 1. (PATENT)



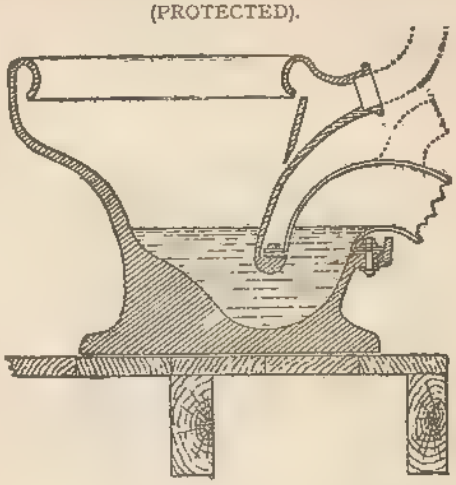
READY FOR USE.

This Closet possesses considerable advantages over any other yet invented. It shows a positive seal of 4 ins. and a depth of water in the basin of 7 ins. The Trap is in sight, so that any obstruction that may at any time occur must necessarily be within view and within easy reach.
The Flushing is so complete that the whole Basin is thoroughly cleansed each time.

One "Dececo" W.C., complete, with Lead Weir, Brass Buttons, Lead lined after Flush Cistern, board and brackets, brass rod or chain, and handle (brass, rosewood, or ebony), & rubber cone	£6	0	0
"Dececo" W.C., Lead weir, & brass buttons, whiteware	3	5	0
" " " " printed blue inside	3	15	0
" " " " printed gold inside	4	0	0
Patent Lead Lined Syphon Flushing Cistern, with After Flush	2	5	0
After Flush Chamber, for use when our Patent After Flush Cisterns are not used	0	15	6
Artisan Closet and Trap, in cane and white ware ..	0	7	6
Stout Mahogany or Walnut Seat, hinged to lift up, and skirting	1	0	0
Cast Iron Brackets, painted, per pair	0	7	6
" " galvanized, per pair	0	10	0

'PURO' WATER CLOSET.

(PROTECTED).



THIS CLOSET overcomes the objectionable and dangerous connection between the earthern trap and soil pipe; the connection is under the Water Line, and being submerged it must be absolutely tight against the leakage of sewer gas.

THE OUTGO (supplied either in lead or stoneware, either P or S), can be turned in any direction The P form will commend itself as having the joints above the floor line, and would be especially useful in houses of fireproof construction.

One "Puro" W.C. complete with Lead or Earthenware P Bend, Iron Collar, 4 Bolts, Lead Lined Flushing Cistern, board and brackets, brass rod or chain, and handle (brass, rosewood, or ebony), and rubber cone	3	17	6
"Puro" W.C. with Lead or Earthenware P Bend Iron Collar and 4 Bolts	1	10	0
With Lead or Earthenware S Bend .. .. extra	0	3	6
Coloured Inside and Outside .. .. .. extra	0	10	0
" Inside only .. .. extra	0	5	0
Improved Lead Lined Syphon Flushing Cisterns ..	1	15	0
Board and Brackets	0	2	6
Brass chain or rod with pull down Handle, either brass, ebony, or rosewood	0	7	0
Slop Tops, in whiteware	0	10	6

IMPROVED IRON INSPECTION COVERS AND FRAMES.

No. 1.

Sizes.	Painted A	B	C	Galvanized.
16 inches square ..	12/-	19/6	24/-	.. 5/6 extra.
18 inches square ..	14/-	21/6	27/-	.. 6/6 "
1 ft. 10 in. × 1 ft. 4 in..	15/6	22/6	30/-	.. 7/6 "
2 ft. 5 in. × 1 ft. 8 in. ..	20/-	27/6	35/-	.. 10/- "
2 ft. 7 in. × 1 ft. 10 in.	25/6	32/6	40/-	.. 10/- "
3 ft. 6 in. × 2 ft. 6 in. ..	45/6	53/6	63/-	.. 21/- "

The Clear Opening is 3 inches less all round.

(A) The original form, with groove to be filled in with oil, or glycerine, &c.

(B) The same form, but with 4 gun metal bolts to fasten cover down and prevent same being opened.

(C) The same as "B," for fixing inside buildings but with our asbestos packing, by which an absolute seal is obtained.

These Frames are made in Two Sections, Nos. 1 and 2. No. 1 is the section generally used for concrete and similar floors, and No 2 for stone curbs. When ordering it is necessary to state clearly the section required, otherwise it will be understood that it is immaterial which section is supplied.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

JAMES WOODWARD & ROWLEY,

Telegraphic Address: "Rowley, Swadlincote." SANITARY POTTERS, SWADLINCOTE, near Burton-on-Trent. Established, 1790.

AWARD OF MERIT at the International Medical and Sanitary Exhibition, South Kensington, 1881 being the highest award for this class of Closet.

THE PATENT "WASH OUT" CLOSET.

REFUSE IMITATIONS. The Trade Mark, "WASH OUT" is printed inside every Basin. None are genuine without this.

This Trade Mark was Registered 14th March, 1878.

No. 200.

This engraving represents the basin fixed on the trap, and is 17 inches high. The trap is made in both S & P shapes and to screw to the floor

Cane, white inside, 14/- Do. printed, 16/- White 18/ each Printed, 21 each. Printed, Flown Colours, 22/- each. Traps with out Closet Basins, 3/6 each.

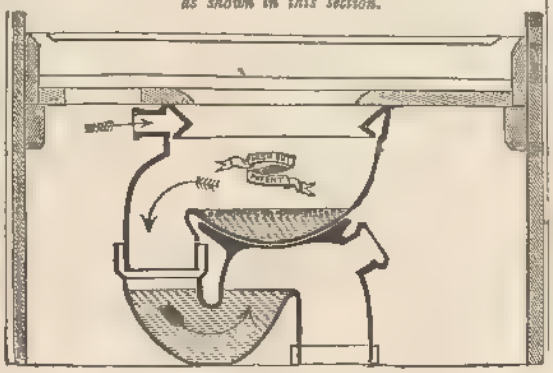
This engraving represents the basin seated on the stand. By this arrangement the trap can be turned in any direction to suit the position of the soil pipe It stands 17 inches high Both Trap and Stand are made to screw to the floor

No. 201

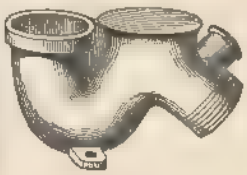
Cane, white inside, 16/- Do. Printed, 18/- White, 20, ea. Printed, 23/ ea. Printed Flown Colours, 24/ ea. Stands only, 2/ ea.

Every basin has printed on it the TRADE MARK, *as shown in this section.*

This is a section of No 200, showing the basin fixed with supply at the side The water in the bottom to receive the soil is 1½ inches deep and 8 inches by 10 inches across thus giving ample water for the soil to fall into.



Trap P—No 203.



Trap S—No. 202.

The ventilation of the traps for these closets is provided for (*when so ordered*) by a pipe of 2¼ inches diameter (larger sizes made to order), as shown in these engravings; this opening can also be used as a means of unstopping the trap, should it ever need it. The trap is made to trap fully 1¼ inches, and thus an efficient trap is secured

The difference between this closet and others with water in the bottom to receive the soil, is that in them you depend upon the water *floating* the soil and paper out of the basin, or have a *discharge valve or plug* placed between the basin and the trap to retain the water in the basin. The objection to the former is that the soil, &c., is frequently left in the basin. By the "**Wash Out**" arrangement both these evils are avoided. The water is so directed in entering the basin that it makes at once for the outlet, **driving** before it the soil and paper out of the basin and through the trap, leaving pure water to fill the basin. **There is no metal or valves of any kind exposed to the action of the soil. It is important to have at least 1¼ inch service** It can be fixed in the place of any ordinary closet. This closet is designed to meet the requirements of the 2 gallons service.

Extract from the *Architect* of June 9th, 1877 page 373 "How to Drain a House" from a paper by T. Mellard Reade, Esq, F.R.I.B.A., C.E., read before the Liverpool Architectural Society:—

"I consider the pan closet objectionable, especially since the compulsory introduction of the 2 gallon regulating cistern has increased the difficulty of getting the after flush to fill the pan *The 'Container' is usually a reservoir coated with filth, hidden by the pan holding the water in the basin.* A basin with a trap at the side or back, called a '**Wash Out**' basin, is a far better apparatus."

"Improvement on Sanitary Condition of Houses," from a paper by J Corbett, Esq., read before the Social Science Congress, Manchester, 1879:—

"We replace defective Closet Appliances by the simple '**Wash out Closet**,' which is of white earthenware, without any valve, and so perfectly self-cleansing as to require very little attention."

Extract from a letter by "M. O. H." (a Medical Officer of Health), *Daily Telegraph*, 22nd September, 1880:—

"The Local Government Board forbids the use of the pan closets . . . . they may be easily replaced by one of the '**Wash Out Closet**' Basins."

Extract from a Lecture by W. Eassie, Esq., C.E., at the International Health Exhibition, July 28th, 1884.

"A **Cleanly Wash-out** Flushing Rim Basin, in connection with a small Flushing Tank overhead, which merely require a touch of the depending chain and ring to liberate the whole contents."

When ordering, please give Name and Number of Engraving.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

JAMES WOODWARD & ROWLEY,

Telegraphic Address: "Rowley, Swadlincote." SANITARY POTTERS, SWADLINCOTE, near Burton-on-Trent. Established, 1790.

SPECIAL! CHEAP!!

NEW PATTERN
CHEAP
PATENT "WASH OUT" CLOSET.

Trade Mark, "Wash Out," is printed inside every Basin.

No. 250.

PRICES.

Cane, White inside, 12/- each.

Do. Printed 13/6 each.

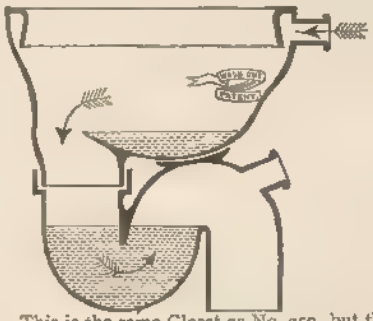
White, 14/- each.

Printed, 16/- each

Printed, Flown Colours, 17/- each.

Traps without Closet Basins, 3/- each.

No. 251.



PRICES.

Cane, White inside, 12/6 each.

Do Printed, 14/- each.

White, 14/6 each.

Printed, 16/6 each.

Printed, Flown Colours 17/6 each.

Traps without Closet Basins, 3/6 each.

This is the same Closet as No. 250, but the Trap has a Pipe for Ventilation.

Trade Mark, "Wash Out," inside, none are genuine without this.

The Traps are all Cane Colour outside, and white inside, and are made in S and P shapes.

Closet must have at least 1¼ inches supply pipe.

BY HAVING THE CLOSET SEAT HINGED SO AS TO LIFT UP, THIS CLOSET CAN BE USED AS A SLOP RECEIVER AND URINAL.

IT CAN BE FIXED IN THE PLACE OF ANY ORDINARY CLOSET.

ANOTHER PATTERN WITH FRONT OUTLET.

Patent "Wash Out." No. 220.

Cane, White Inside ..	13/-
Cane, Blue inside ..	15/6
White	16/-
Blue Printed	18/6
Flown do.	20/0

The Traps are made S and P shapes.

Made also with Vent pipes at 6d. *each extra.*

When ordering, please give Name and Number of Engraving.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

JAMES WOODWARD & ROWLEY,

Telegraphic Address: "Rowley, Swadlincote." SANITARY POTTERS, SWADLINCOTE, near Burton-on-Trent. Established, 1790.

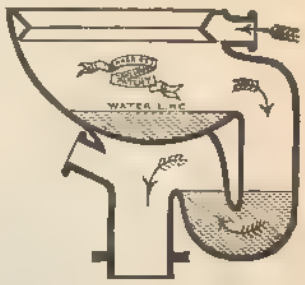
THE PATENT "WASH OUT" CLOSET—in One Piece of Pottery.

No. 210.

The Closets are made of the very best white earthenware, and most carefully finished in every respect.

WHITE, 30/- each.
BLUE PRINTED, 36/-.
FLOWN PRINTED, 44/-.

Section of No. 210.



Patent "Wash Out" Closet, Urinal, and Slop Sink

(COMBINED).

THIS CLOSET IS SPECIALLY DESIGNED TO BE FIXED WITHOUT WOOD CASING AND IS MADE IN ONE PIECE OF EARTHENWARE.

No. 231.

No. 232.

White .. .. 45/- each
Ivory .. .. 45/- „
Printed Inside 51/- „
Printed Inside and Outside 55/- „
Flown Colours 5/- each extra.

Coloured Decoration each Inside only .. 70/-
Coloured Decoration Inside and Outside 75/-
Peach Colour Outside, Ivory or White Inside 60/

The Closet No. 231 is made perfectly plain and smooth, so that dirt shall have no opportunity to lodge upon it anywhere.

PAPER BOX.

White .. .. 6/6 each.
Ivory .. .. 6/6 „

Printed .. .. 8/- each.
Coloured Decoration .. .. 11/6 „
Peach Coloured .. .. 10/- each.

When ordering, please give Name and Number of Engraving.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

JAMES WOODWARD & ROWLEY,

Telegraphic Address: "Rowley, Swadlincote." SANITARY POTTERS, SWADLINCOTE, near Burton-on-Trent. Established, 1790

TIP-UP LAVATORIES, RECEIVERS, AND URINALS.

No. 190. Round Receiver.

For Basins, 12 in., 14 in., 16 in., and 18 in.

	Inches.	White.
To fit Tip-up Basin	12	12/-
" "	14	14/-
" "	16	22/-
" "	18	32/-

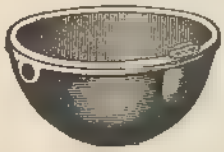
No. 191. Improved Receiver.

	Inches.	White.
To fit Tip-up Basin	12	13/6
" "	14	15/6
" "	16	24/6
" "	18	36/-

No. 197. Tip-up Basin.

Inches.	White.	Marble.
12	5/6	6/6
14	6/6	7/9
16	10/-	12/-
18	16/-	20/-

No. 198. Tip-up Basin.
With round holes for pivot bosses.



Inches.	White.	Marble.
12	5/6	6/6
14	6/6	7/9
16	10/-	12/-
18	16/-	20/-

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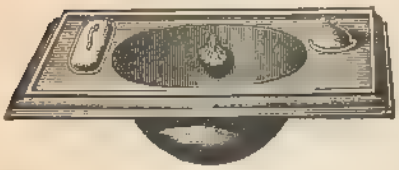


No. 155.
OVAL BASIN

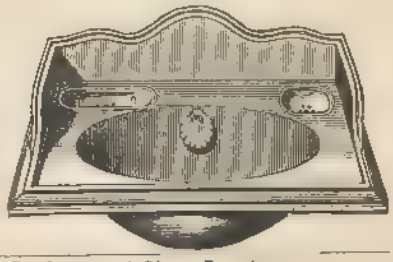
	Inches.
Size of Top	26 by 18.
Basin	$17\frac{3}{4}$, $13\frac{1}{4}$

	Price.
White	25/-
Marble	28/-

No. 156.

	Inches.
Size of Top	26 by 18
Basin	$17\frac{3}{4}$ .. $13\frac{1}{4}$

	Price.
White	30/-
Marble	34/-



SINKS.

No. 504, Drainer and Slops Receiver.
No. 506. Drainer and Wash Up Sink

	Inches
Size of Top	24 by 14
Depth of Basin	$10\frac{1}{2}$
Diameter of Top of Basin	$13\frac{1}{2}$
Diameter Outlet	$3\frac{1}{2}$

White, 35/- Marble, 40/-

Traps No. 447 and 44^{B}, fit the outlet of pipe.

No. 505. Drainer and Slops Receiver.
No. 507. Do. and Wash Up Sink.

To fit Traps 447, 44^{B}.

White, 40/-

Marble, 45/-

Same size as 504.

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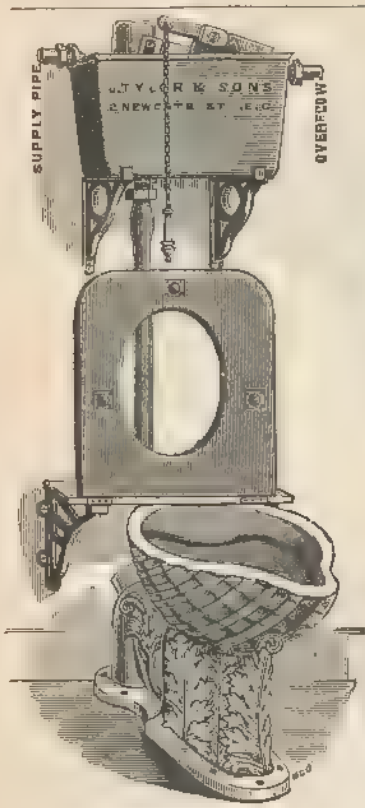


Fig. $\frac{8}{18}$

J. TYLOR & SONS' "COMPOUND" CLOSET, URINAL, AND SLOP SINK. COMPLETE WITH PATENT SYPHON FLUSHING CISTERN, &c. IRON WORK GALVANIZED. MAHOGANY SEAT TO LIFT NO DOWN PIPE INCLUDED IN PRICE.

White Basin	£5	4	0
Decorated in Colours	5	14	0
White and Gold	6	1	0
Seat to Swing . .. .. extra	0	7	0
Fig. $\frac{8}{18}$ ditto, plain white basin, painted iron work, deal seat to lift	3	11	6
Seat to Swing . .. . extra	0	7	0

BEAN'S PATENT CISTERN AND OTHER VARIETIES IN CATALOGUE.

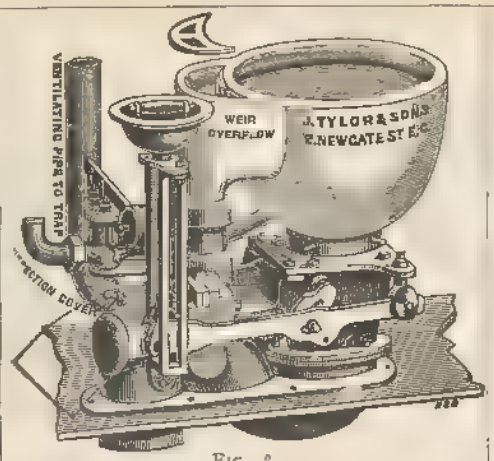


Fig. $\frac{6}{14}$

J TYLOR & SONS 'SPECIAL' PATENT VALVE CLOSET, REVERSIBLE TRAP ABOVE FLOOR-LINE. WEIR OVERFLOW BASIN, INCH PATENT REGULATOR AFTER FLUSH VALVE UNDER SEAT

With Brass sunk Dish, and White Basin	£5	6	0
Ditto, Nickel Plated mountings, handsome pattern Basin, silvered glass bottom plate	5	15	6
Fig. 6-12 ditto, with Brass Sunk Dish and White Basin, and fittings of smaller dimensions large overflow of usual pattern	3	17	0
Ditto, Nickel Plated mountings, handsome pattern Basin, earthenware bottom plate	4	2	6

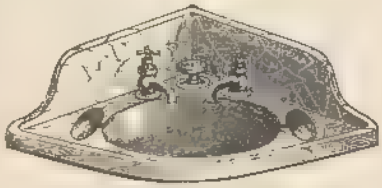
☞ *SEE CATALOGUE FOR OTHER VALVE CLOSETS.*

Fig. $\frac{14}{14}$

J. TYLOR & SONS' SYPHON URINAL BASIN (1 Gal.), PATENT SYPHON FLUSHING CISTERN, INLET CONNECTION, EARTHENWARE WASTE PIPE NO DOWN PIPE £2 13s. 8d.

☞ *OTHER VARIETIES IN CATALOGUE.*

J TYLOR & SONS' OBLONG WHITE EARTHENWARE LAVATORY (Fig. $\frac{69}{14}$), WITH 2½ IN. NICKEL PLATED SCREW DOWN VALVES (Fig. $\frac{73}{7}$), AND QUICK WASTE VALVE (Fig. $\frac{65}{1}$). £3 18s. 3d.



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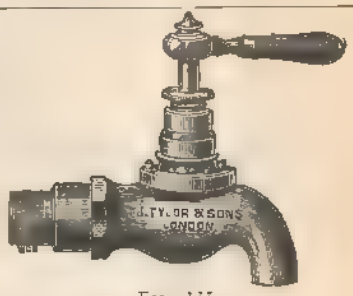

Fig. $\frac{17}{50}$

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½ in., 6/3. ¾ in., 9/6. 1 in., 12/-

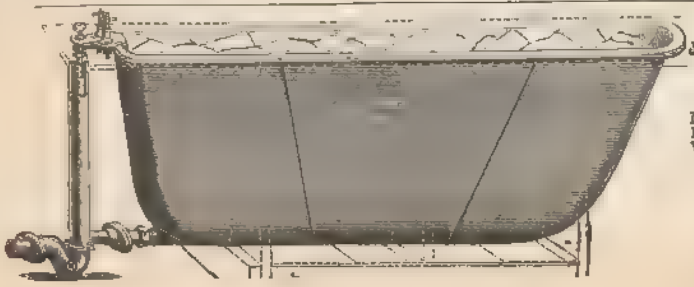

Fig. $\frac{68}{2}$

J. TYLOR & SONS NEW SHAPE COPPER BATH, WITH SPOUT PLATE. 1 IN. VALVES, 1¼ IN CONCEALED OVERFLOW AND QUICK WASTE.

	5 ft. 3 in.	5 ft. 6 in.	6 ft.
Nickel Plated ..	11 11 0	11 16 0	14 9 0
Mounts, extra ..	0 6 6	0 6 6	0 6 6
Wood Cradle .	0 16 9	0 16 9	0 16 9

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THE

COMPLETE CATALOGUE.

Section M.

WALL AND CEILING COVERINGS.

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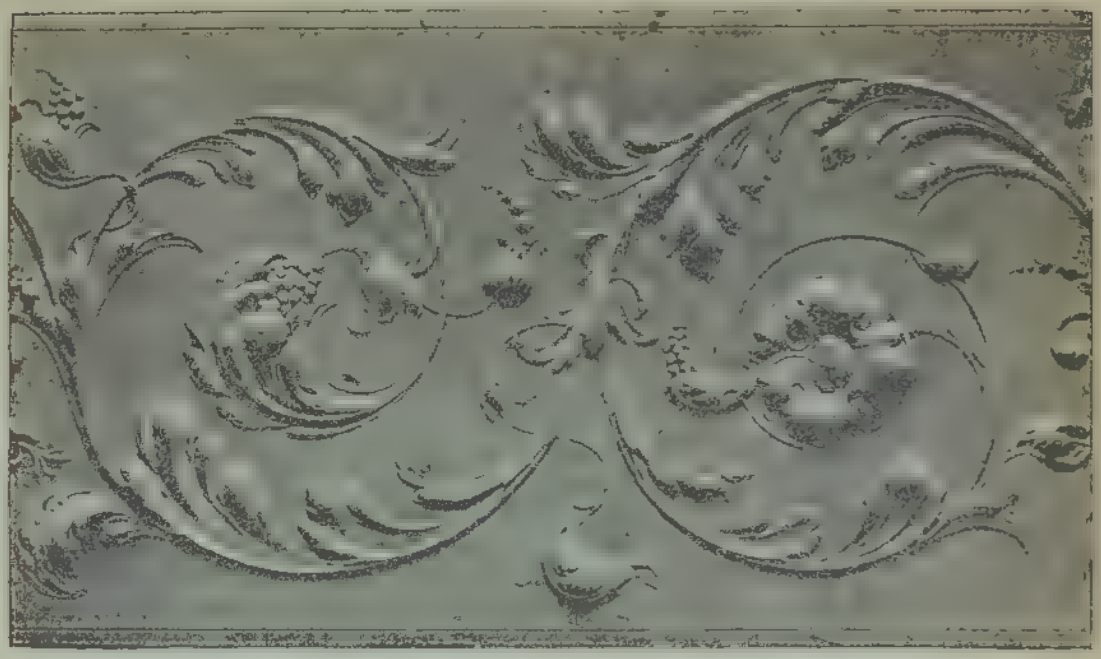

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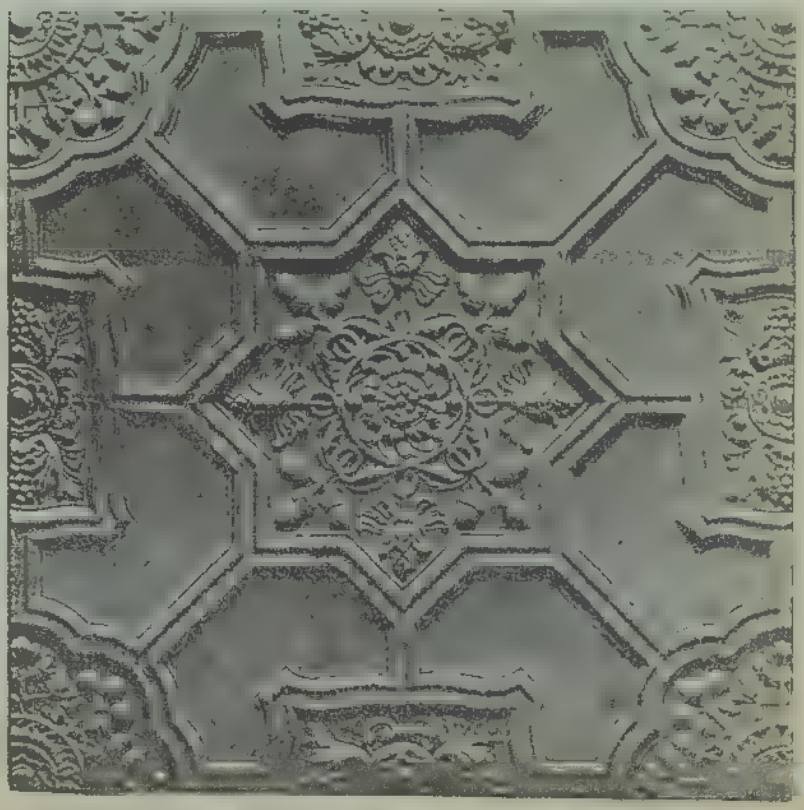

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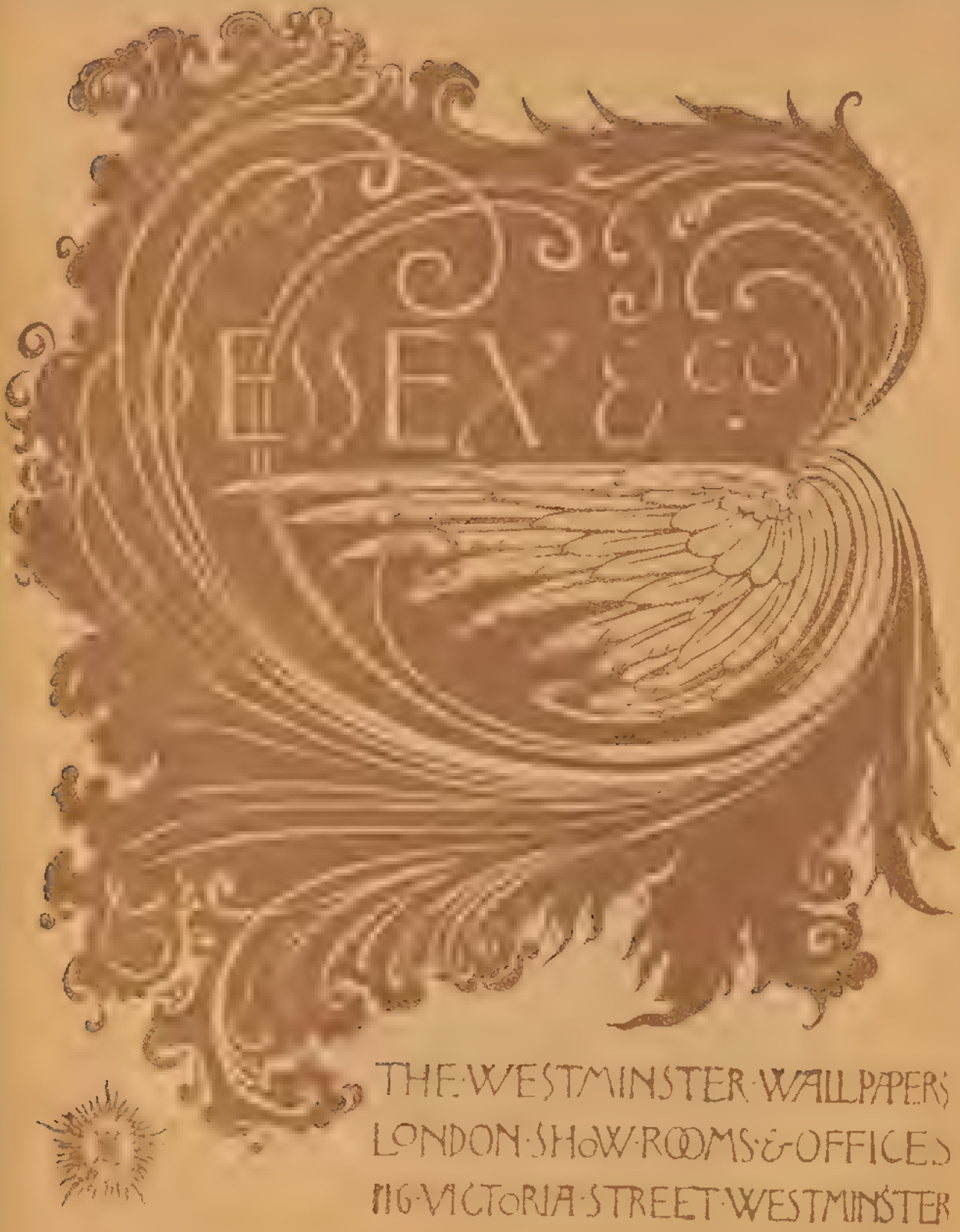

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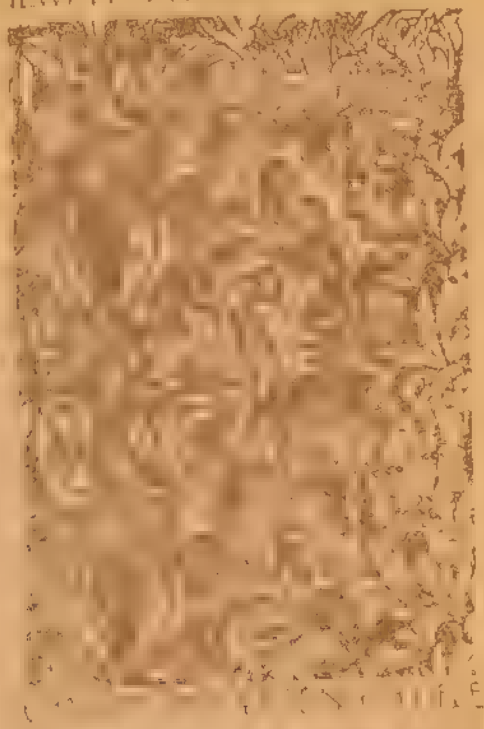

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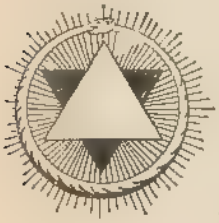

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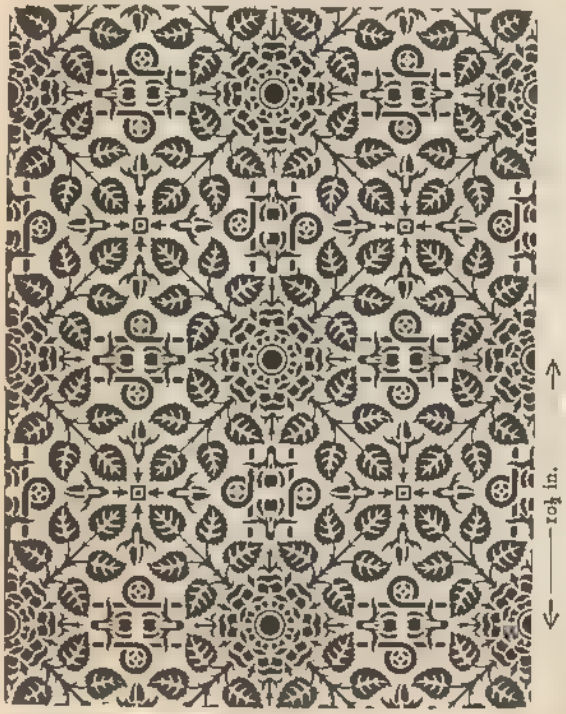

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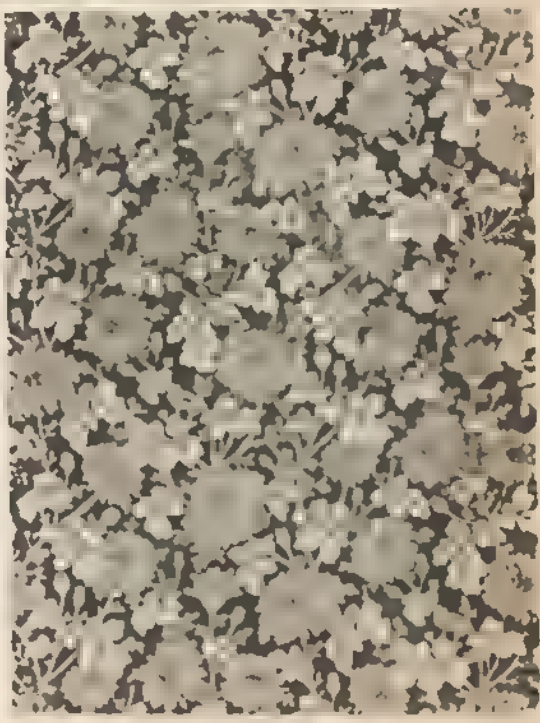

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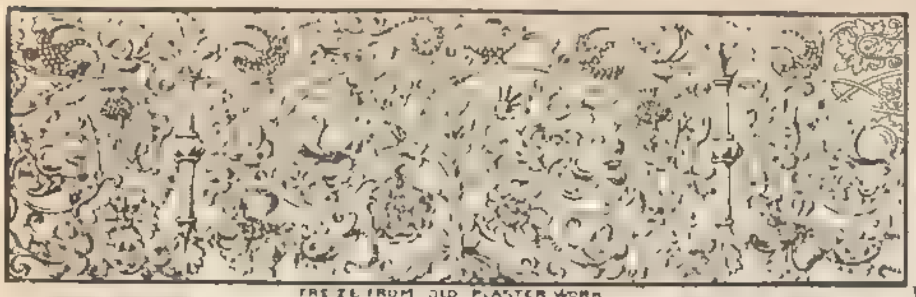

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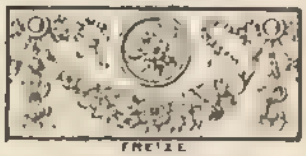

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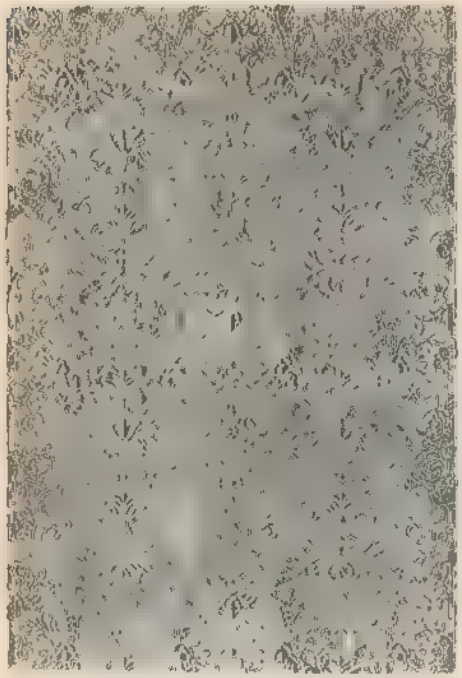

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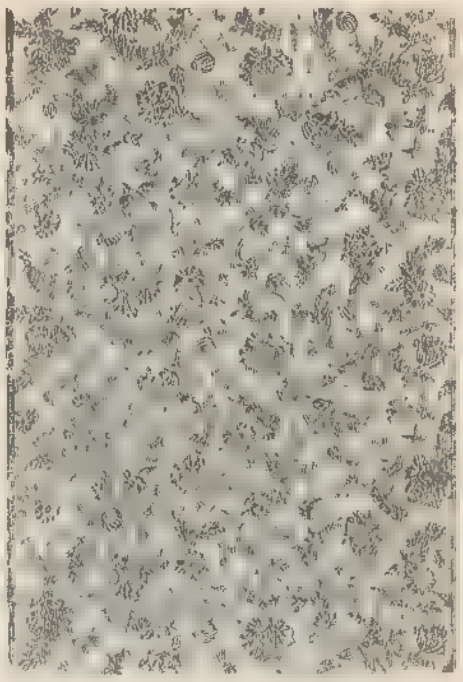

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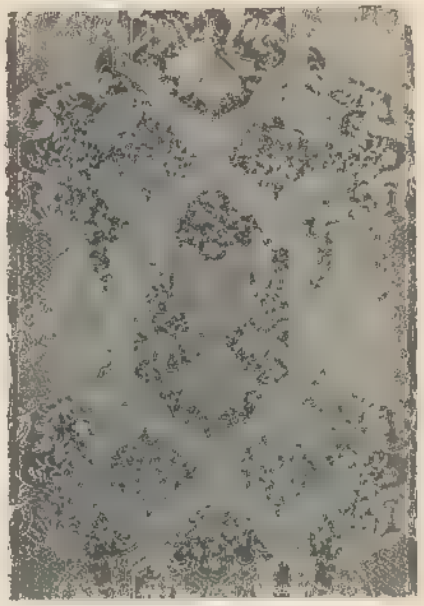

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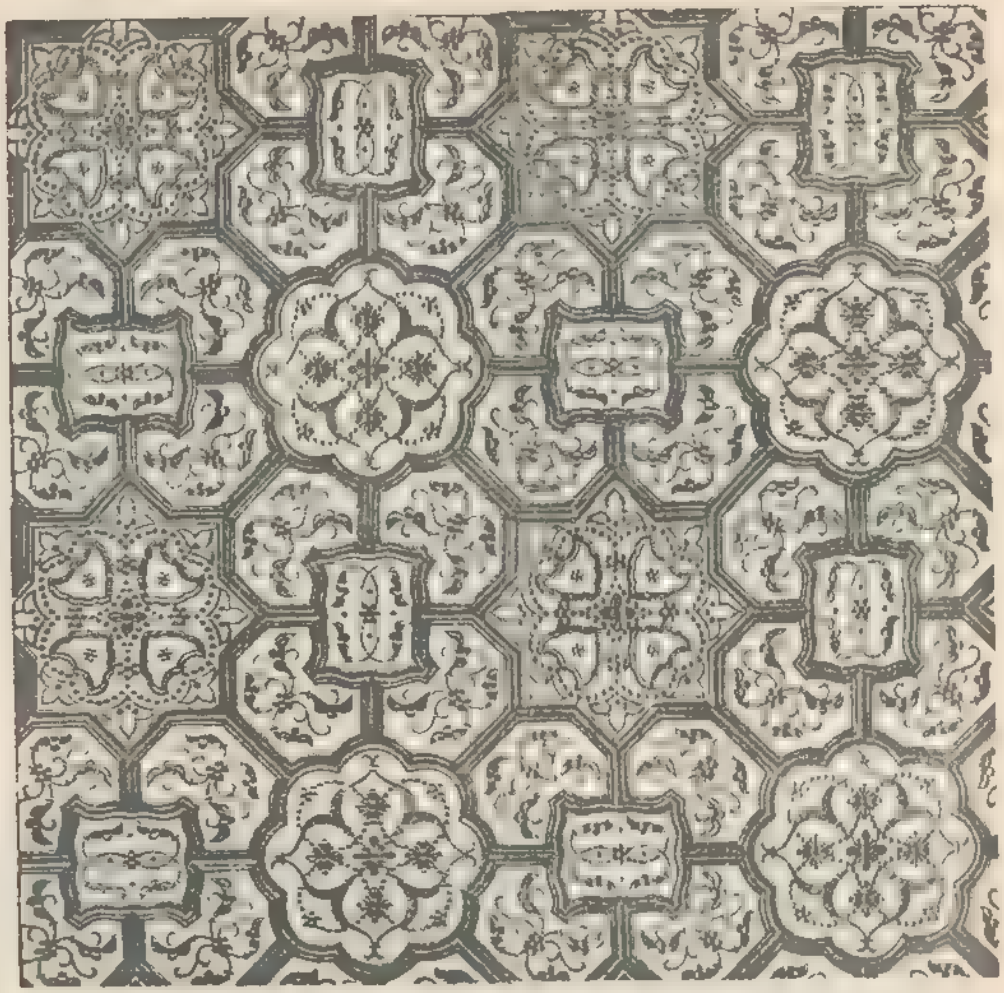

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From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Telegraphic Address "LINCRUSTA-WALTON, LONDON.

LINCRUSTA-WALTON.

Telephone No 3709
Price Lists on application

All Letters &c. to be addressed to Messrs. F. WALTON & CO., Limited, 2, Newman Street, London, W.

DADOES.

Upon paper backing. Canvas backing 3s. extra per piece of 12 yards. N.B. Dadoes Stock Colour B (Brown), but the other Colours viz., A Red, C Green, and D Buff, can be made to order in a few days. All in 12 yd. lengths. Extra charge for cutting lengths.

Height in Ins.	Width in Ins.	Pattern Nos.		Design.	Price.	Height in Ins.	Width in Ins.	Pattern Nos.	Design.	Price.
As cut	19	120		Fluted	3 0 per lin. yd	18¾	As cut	285	Bamboo	1 6 per lin yd
23	As cut	128		Early English ..	2 0 ,,	18¾	,,	286	Corduroy	1 9 ,,
19½	do	129		Japanese . .	2 9 ,,	18¼	.	287	Adams .	2 0 ,,
22¾	do.	132		Gothic	2 3 ,,	27	,,	1027	Chamfered Wood ..	5 0 ,,
37	19¼	139	Left	Japanese	2 9 per block	As cut	16	1106	Square Diaper ..	2 0 ,,
,,	,,	139	Right	do.	2 9 ,,	47	18	1108	Old English	4 6 per block
,	,,	139	Straight	do	2 9 ,	As cut	9½	1110	Matched Board .	1 6 per lin. yd
,,	,,	146	Left	Italian Renaissance	2 6 ,,	,,	18	1127	Parquet	2 3 ,,
.		146	Right	do do	2 6 .	18	18	1128	Linen Fold . ..	2 9 ,
,,	,,	146	Straight	do. do.	2 6 ,,	,,	28	1129	Plain Panel	3 9 ,,
22¾	As cut	149		Japanese	2 6 per lin. yd	As cut	24	1130	Flute and Panel ..	3 0 ,,
23	do.	150		Adams'	2 8 ,,	,,	18	1140	Tiles	2 3 ,,
As cut	27	151		Arabian	6 0 ,,	19¼	As cut	1141	Oriental (Peacock) ..	1 9 ,,
21¼	As cut	159		Japanese ..	1 9	48	28	1142	Italian .	4 0 per block
38½	19¼	165		16th Century Panel	4 0 per block				Etc., Etc.	Etc., Etc

FILLINGS.

N.B.—Dadoes should be surmounted with a wooden moulding or chair rail which can be supplied mounted with Lincrusta Walton to match. See DADO RAILS next page.

Width in Ins.	Pat. Nos.	Design.	Price Lin. yd s. d.	Width in Ins.	Pat. Nos.	Design.	Price, Lin. yd s. d.	Width in Ins.	Pat. Nos.	Design.	Price, Lin. yd. s. d.
18	29	Date Palm	2 9	18	143*	Cross Chain	1 6	18	292	Italian .	1 6
18	49	Floral	2 9	18½	152	Adams (Vase)	1 6	38¾	294	Renaissance (dbl width)	5 0
18¾	53	Shell	2 6	18	153*	Persian Faience ..	1 6	22½	297	Satyr's Head	3 0
18	61	Floral	2 6	18¼	160*	Small Diaper .	1 6	18	299	Acanthus .	2 0
18	103	Venetian	1 6	22½	166*	Filigree	1 3	18	1100	Damask	3 0
18½	121	Flower	1 6	18½	167*	Early English	1 9	18	1101	Renaissance	2 6
18¼	122	Gothic	1 6	18½	179*	Patera	1 6	22	1104	Foliated Embroidery .	2 3
18½	123	Renaissance . ..	2 0	18	260*	Italian	1 6	18	1105	Coronet	2 6
18½	127	Sunflower	1 9	18	261*	Sycamore Leaf.. ..	1 6	22¼	1107	Alhambra	2 3
18½	130*	Japanese (Rose) ..	2 6	18	262	Poppy	2 0	18	1109	Oriental	2 0
18½	131	Gothic Lily	1 6	18	263	Japanese (Reed	1 6	18	1125	Applique Lace .. .	1 3
18	133*	Rosette	1 6	18	264*	Rose and Fret Diaper..	1 9	18	1126	Alhambra	1 6
23	138	Crepe	1 6	18	265*	Adams'	1 6	18	1150	French Renaissance ..	2 0
23	.	Morocco.. .. .	1 6	18	266*	Italian Husk	1 9	18	1151	Arabian Scroll .	1 6
23	,,	Sand-grain	1 6	18	270*	Oriental	1 9	18⅛	1152	Floral	1 6
23	,,	Smooth	1 6	18	271*	Italian	1 9	18	1153	Venetian	1 6
19¼	140*	Japanese (Fret) . ..	1 9	18	275*	Adams (Diaper)	1 9	18	1154	Naturalistic . .	1 6
18½	141	Cupid	2 0	18	283	Tulip	1 9			Etc , Etc.	
18	142	New Gothic	1 6	22½	201	Fleur-de-lys	3 0				

FRIEZES.

N.B.—Fillings Stocked in D (Buff) only, but the other colours, viz., A Red, B Brown, and C Green, can be made to order in a few days. All in 12 yard lengths. Extra charge for cutting lengths.

Width in Ins.	Pat. Nos.	Design	Stock colour	Price Lin. yd s. d.	Width in Ins.	Pat. Nos.	Design.	Stock colour	Price, Lineal yard s. d.		Width in Ins.	Pat. Nos.	Design.	Stock colour	Price Lin. yd.
10½	124	Flower ..	D	1 0	10¼	288	Adams'.. ..	D	1 0		10½	1131	French Renais	D	1 0
6	134	Japanese ..	,,	0 9	8	289	Adams'.. ..	,,	0 9		6	1119	Classic	,,	1 0
6½	137	do	.	0 9	5½	156	do ..	,,	0 9		10½	1132	Floral	,,	1 0
6½	144	Leaf and Flower	,,	0 9	6	157	do. ..	,,	0 9		6½	1060	Floral ..		1 0
12	154	Adams'.. ..	,,	1 3	18½	296	do. ..	,,	2 6		18¾	60	American Mod'n Renaissance	,,	3 0
11¾	155	French ..	.	1 3	18	298	Scroll .	.	3 0		9½	1020	do Renais.	,	1 3
10	158	Adams'.. ..	,,	1 3	18	1102	Medallion ..	,,	3 0		6	1170	Flute & Patera	,,	0 10
6½	170	Garland	,	0 9	10	1103	do. .	,	2 6	Per Set of Three.	12	1171	Festoon .	,,	1 6
6½	180	Fruit	,,	1 0	6½	1111	Cord	,,	1 0		10¼	1172	Elizabethan ..	B&D	1 6
10¼	181	Bay Garland	,,	1 0	15⅜	1114	Griffin & Shield	,	2 0		8	1173	Scroll Pilaster ..	,	1 0
7¼	284	Persian Faience	,,	0 9	6½	1116	Reed	,,	1 0				Etc., Etc.		

CEILING DECORATION.

All Friezes in 12 yard lengths. Extra charge for cutting lengths.

Width in Inches.	Pattern Nos.	Design.	Colour	Price. s. d.	Width in Inches.	Pattern Nos.	Design.	Colour	Price. s. d.
19	1052	Modern Renaissance	D	3 0 per lin. yd.	3½	1115	Ceiling Moulding ..	D	0 9 each
18	1133	Greek	D	2 6 do.	1¾	1118	do. do ..	D	0 6 do.
21	1134	Diaper	D	2 6 do.	3¼	1121	do. do ..	D	0 9 do
18	1135	Renaissance	D	3 0 do.	2	1122	do. do ..	D	0 6 do.
4½	1135	Style for Ditto ..	D	0 9 do.	3½ × 3½	1	Ceiling Patera ..	D	4 0 per doz
19 × 21	1136	Hexagon	D	3 0 per block	3½ × 3½	2	do. do. ..	D	4 0 do
19 × 9	1136	do. Ends to match	D	0 9 each	7 × 7	3	do. do. ..	D	9 0 do
18	1137	Laurel	D	2 0 per lin yd.	5 × 5	4	do do. ..	D	4 0 do.
18	1138	16th Century ..	D	3 0 do.	5 × 5	5	do. do. ..	D	4 0 do

All Fillings marked * are suitable for Ceiling Decorations.
Estimates given for Moulded and Panelled Ceiling in special Lincrusta Walton Designs. A great variety of Borders and Mouldings from ½ in. to 5½ in.
Write for Price Lists and Lithos, also see Border Book

For few of 1889 and 1890 New Patterns see Illustrations on next Four Pages and Company's 1890 Price List.

N.B.—Great Reductions in Price. Compare Price List 1890 with previous issues.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

LINCRUSTA-WALTON.—*Continued.*

PANELS.

Especially designed for Doors, Cabinets, Mantels, Ships, Saloons, and a variety of other adaptations.
Stock Colours for Panels B and D

Height in Ins.	Width in Ins.	Pattern Nos.	Each. s.	Each. d.	Height in Ins.	Width in Ins.	Pattern Nos.	Each. s.	Each. d.
26	10½	400	1	6	23½	2	423	0	3
20	10½	401	1	3	2½	2½	424	0	1
15¾	10½	402	1	0	2½	2½	425	0	1
5¾	10½	403	0	4	6¼	6¼	426	0	3
4½	10½	404	0	4	8	19	427	0	6
22½	6¼	405	0	8	8¼	4½	428	0	2
22½	6¼	406	0	9	3 5/16	3 5/16	429†	0	1
17⅝	11⅝	407	0	9	17½	11	430	0	9
17⅝	7½	408	0	6	20¾	3½	431	0	4
12½	10½	409	0	6	10¼	19⅝	432	0	6
15⅝	7¼	410	0	6	7½	16¾	433	0	4
7¼	7¼	411	0	3	2½	2½	434‡	0	1
5½	10½	412	0	3	Corn'r				
5½	10½	413	0	3	for	148	435	0	4
4½	4½	414	0	3	As cut	12	*436	1	2yd
11	11	415	0	8	17½	7⅝	437	1	6ea
22	11	416	1	0	17½	7⅝	438	1	6
5	4½	417	0	3	17½	7⅝	439	1	6
5	4½	418	0	3	17½	7⅝	440	1	6
5¼	2½	419	0	2	10	12	441	0	9
5¼	2½	420	0	2	10	12	442	0	9
2 1/16	2 7/16	421	0	1	30	12	443	1	9
2 7/16	2 7/16	422	0	1	30	12	444	1	9

† Panel to match Border 148. ‡ Panel to match Border 168. * Specially designed for Door Panelling. N.B.—The above are the sizes at present manufactured, but Customers may be reminded that most of the Dados and Fillings may be cut up for Panels with great advantage and effect.

FINGER PLATES.

Small Height.	Large. Height.	Width. Inches.	Pattern Nos.	Colour.	Per Dozen Pairs. s.	Per Dozen Pairs. d.
9½	12	3	300	B	9	0
9½	12	3	301	B	9	0
9½	12	3	302	B	9	0
	9⅞	3½	303	D	8	0
9¾	14	3¼	304	D	12	0

PLAQUES AND ART OBJECTS.

Size in Inches.	Pattern Nos.	Description.	Price, Plain. s.	Price, Plain. d.
6 × 10	01	Sculpture	0	8
6 × 10	02	Painting	0	8
6½ × 12	03	Music A	0	8
6½ × 12	04	do. B	0	8
10 × 10	05	Bird	0	9
10 × 10	06	do.	0	9
9½ × 18	011	Sowing	1	6
9½ × 18	012	Reaping	1	6
7 × 5	014	Bachanalia	0	6
9½ × 7¼	015	Ornament	0	9
8½ × 6½	016	Ornament	0	6
24 × 12	017	Floral	2	6
24 × 12	018	do.	2	6
14½ × 11	019	Griffin	1	6
12 × 11	020	Cupid	1	6
23½ × 10	021	Una and the Lion ..	2	0
23½ × 10	022	White Doe of Rylston..	2	0
20½ × 7½	023	Nymph de Jean Goujon	2	6
20½ × 7½	024	do do. ..	2	6
20½ × 7½	025	do do. ..	2	6
20½ × 7½	026	do. do.	2	6
8 × 21	028	Reading (Horizontal) ..	2	0
13½ × 18	030	Neptune	2	0
13½ × 18	031	Aphrodite	2	0
6 × 6	032	Spring	0	6
6 × 6	033	Autumn	0	6
6 × 6	034	Summer..	0	6
6 × 6	035	Winter	0	6
5½ × 4½	036	Child and Dog	0	4
12 × 9	037	Dolphin and Birds ..	1	3
40 × 11	038	Night	4	6
40 × 11	039	Morning	4	6
36 × 14	040	Over-door Panel ..	5	0
18½ × 10	041	Breast plate	2	0
10 × 10	042	Helmet	1	0
12 × 19	051	Dolphin	2	0
		&c., &c		

N.B.—See our New Litho. Book. Unique! Artistic! 500 Designs

DADO RAILS.

Made from Wood of best Quality and *sized in imitation* of Ebony, Walnut, Mahogany and Satin Wood, and mounted with LINCRUSTA-WALTON to match the Dados. All in 12 feet lengths. Extra charge for cutting lengths.

Width in Inches	Pat. Nos.	Wood in Stock	Pattern No. and Colour of Lincrusta Ornament Border	Price 12 feet Length s.	Price 12 feet Length d.	Width in Inches	Pat. Nos.	Wood in Stock	Pattern No. and Colour of Lincrusta Ornament Border	Price 12 feet Length s.	Price 12 feet Length d.	Width in Inches	Pat. Nos.	Wood in Stock	Pattern No. and Colour of Lincrusta Ornament Border	Price 12 feet Length s.	Price 12 feet Length d.
2¾	1 R	Walnut	169B ..	6	0	3½	16, R	Satin wood	188D ..	7	9	2¾	73 R	Oak	175B ..	6	0
3	2 ,,	Mahog.	174B ..	5	6	3½	17 ,,	Ebony ..	195 & 196C..	7	6	4¼	74 ,,	,,	185B ..	9	6
3	3 ,,	Ebony.	168B ..	5	6	4⅜	18 ,,	Mahogany	188B ..	7	6	2¾	75 ,,	,,	199B ..	5	6
2¼	4 ,,	Walnut	175B ..	6	0	3¾	21 ,,	,,	253B ..	7	6	3	76 ,,	,,	254B ..	6	0
2¾	5 ,,	,,	162B ..	5	6	3	22 ,,	Walnut ..	256B ..	6	6	3	77 ,,	,,	256B ..	8	6
2¾	6 ,	,	126B .	6	0	3½	23	Ebony .	192B	7	0	4¾	78	,	282B .	10	6
2¼	7 ,	,	135B ..	6	0	3	24	,, ..	190B	7	0	2¼	79	,	23D ..	6	0
3	8 ,,	Ebony	176B ..	7	0	4	25 ,	Mahogany	161 & 280B..	10	0	2½	80 ,,	Ebony	194B ..	6	0
3	9 ,,	Walnut	188B ..	6	6	4	26 ,,	,, ..	185 & 177 ..	10	0	2¼	81 ,,	Walnut	193B ..	6	0
3	10 ,,	Ebony	178B ..	7	0	3	27 ,,	,, ..	274B ..	7	0	4½	82 ,,	Mahog	125B ..	7	6
3¾	11 ,,	,,	189B ..	7	6	3	28 ,,	,, ..	273B ..	7	0	2¾	83 ,,	Oak	161B ..	6	0
3¾	12 ,,	,,	187C ..	7	6	2¾	29 ,,	Walnut ..	184B ..	6	0	3	84 ,,	Walnut	281B ..	6	6
3½	13 ,,	,,	191B ..	7	0	3½	70 ,,	Oak ..	174B ..	6	6	3	85 ,	Ebony	255B ..	5	6
3¾	14 ,,	,,	148B ..	7	6	2½	71 ,,	,, ..	173B ..	6	0	2¾	86 ,,	Oak	154 MD	6	0
3½	15 ,	Mahog	175C	7	0	4½	72 ,	,, .	171B	7	6	2¾	88 ,	Walnut	188B	6	6

Litho. Illustrations of above post free on application. Besides these Decorated Dado Rails, Antique Carved Dado Rails, and PICTURE RAILS are kept in stock or made to order. Lincrusta-Walton may be had of all the best Builders, Decorators, or House Furnishers in the United Kingdom; or of the Sole Manufacturers,

FRED. WALTON & CO., LIMITED,

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Job Lots of Material may at times be had.

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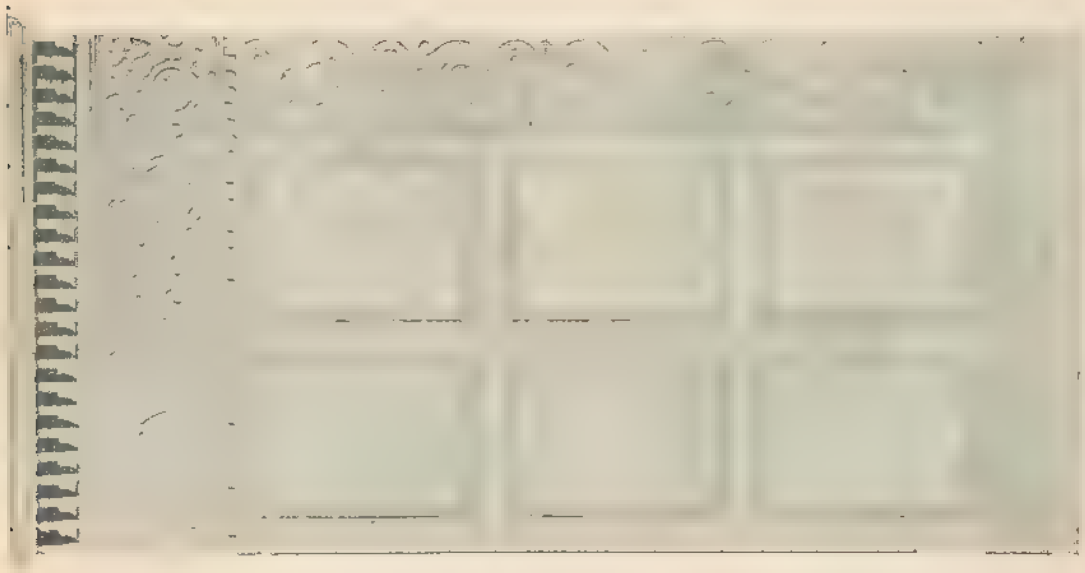
No. 1173. Scroll Pilaster, 8 in. wide.
1/- per lin. yd.

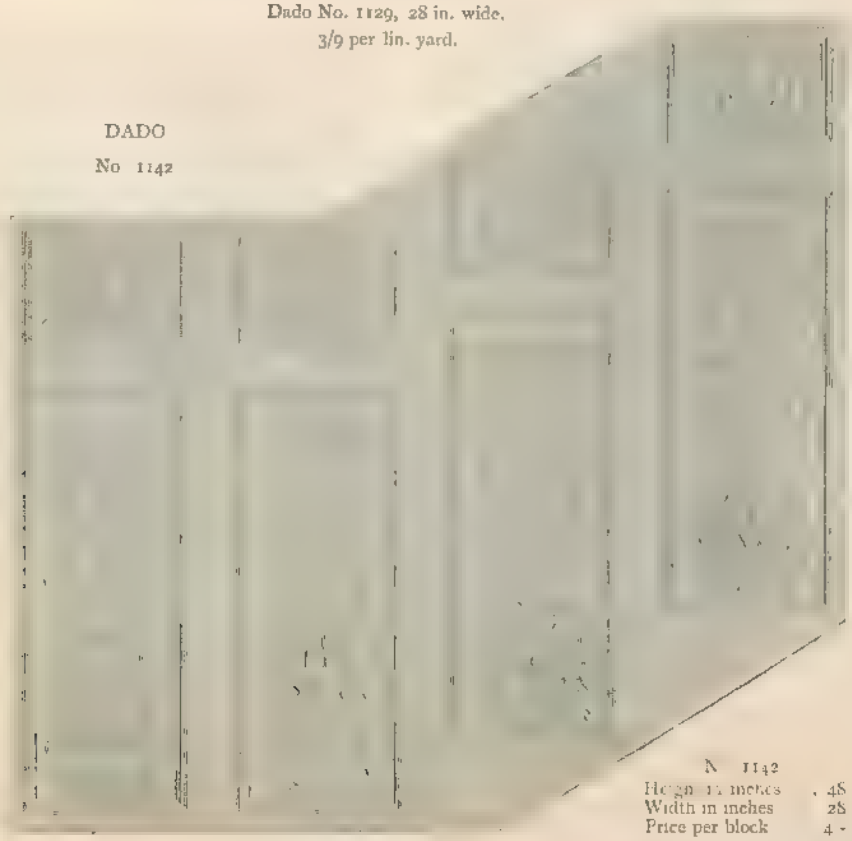
DADO.



Dado-Rail. 99/R. 5 in. deep.

4 ft. 6in.
Dado No. 1129, 28 in. wide.
3/9 per lin. yard.

DADO
No 1142



N 1142
Height in inches 48
Width in inches 28
Price per block 4

N 1142
Height in inches 48
Width in inches 28
Price per block 4/-

LINCRUSTA-WALTON.
(Registered Design.)

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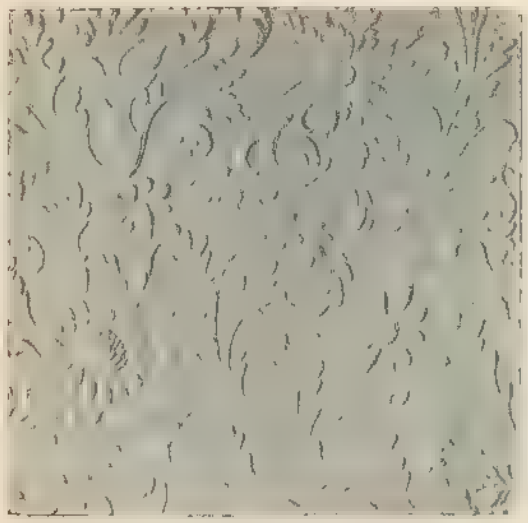
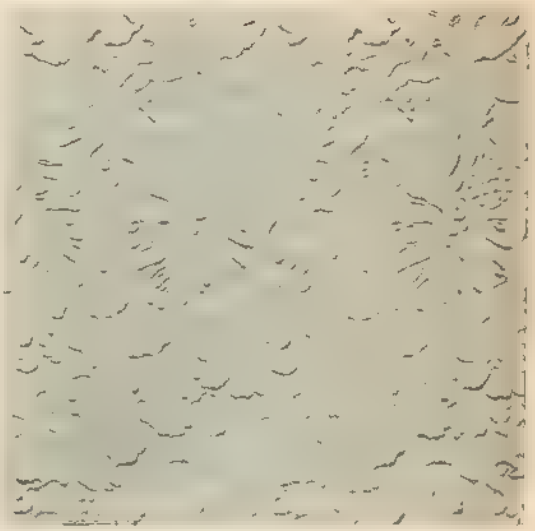
LINCRUSTA-WALTON.

[illegible]

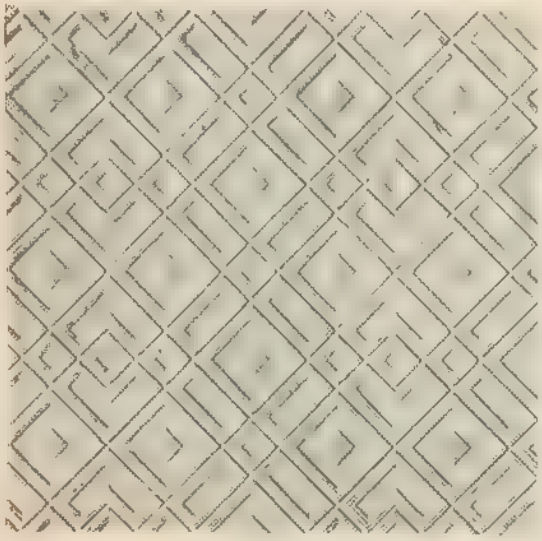
Filling No. 1134 22 [illegible] 2 3 [illegible]



Filling No. 1134 18 [illegible] 1 6 [illegible]



Dado No. 1144 20 [illegible] per lin. yd.



Dado No. 1130. 24 [illegible] per lin. yd.

[illegible] range of [illegible] see [illegible] 1890 Price [illegible] now ready.

Prices Greatly Reduced

See [illegible] Price [illegible]

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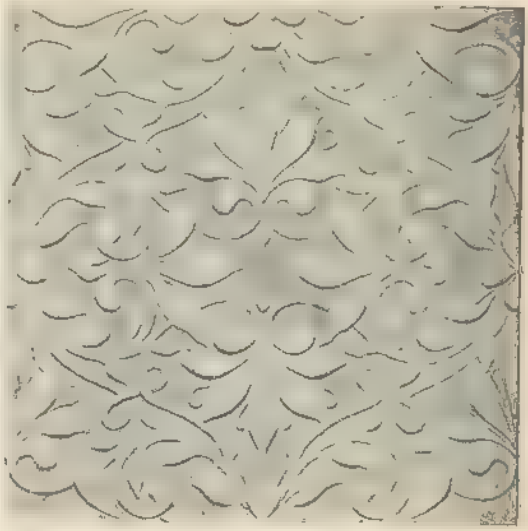
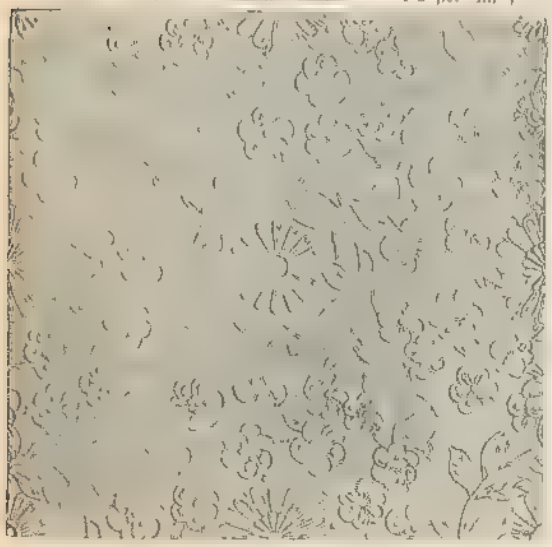
LINCRUSTA-WALTON.

Ceiling No. 1138. 18 in. wide. 3 - per lin. yd.

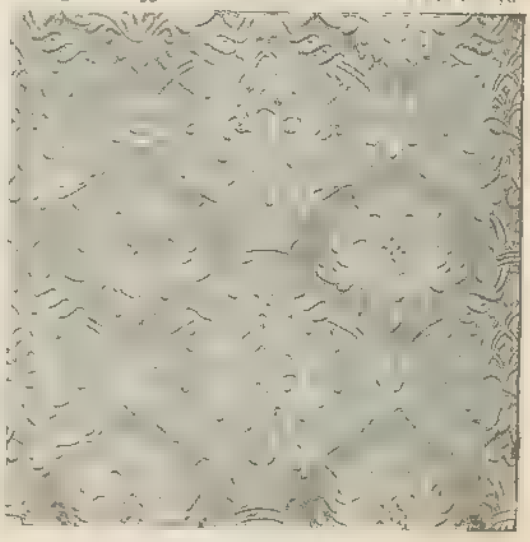
Ceiling No. 1137. 18 in. wide. 2 [illegible] yd



[illegible] 18 in. wide. 1 6 per lin. y[illegible]



Ceiling No 1153 [illegible] yd



For fully illustrated list of the Company's productions see their New 1889 - Litho. Book, and the "1890" Appendix thereto. The "1889" Book is now incorrect [illegible] to prices, which have be[illegible] January, 1890 very Greatly Reduced. The "1890" Price List, now ready, will give correct prices.

See also Price List published herewith, on pages immediately preceding these illustrations

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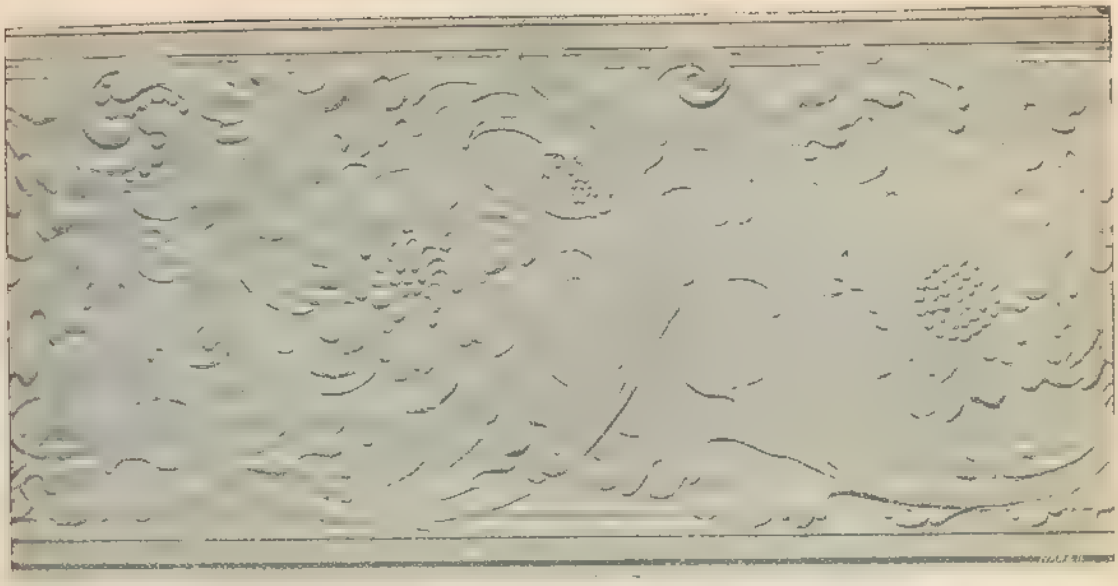
LINCRUSTA-WALTON.

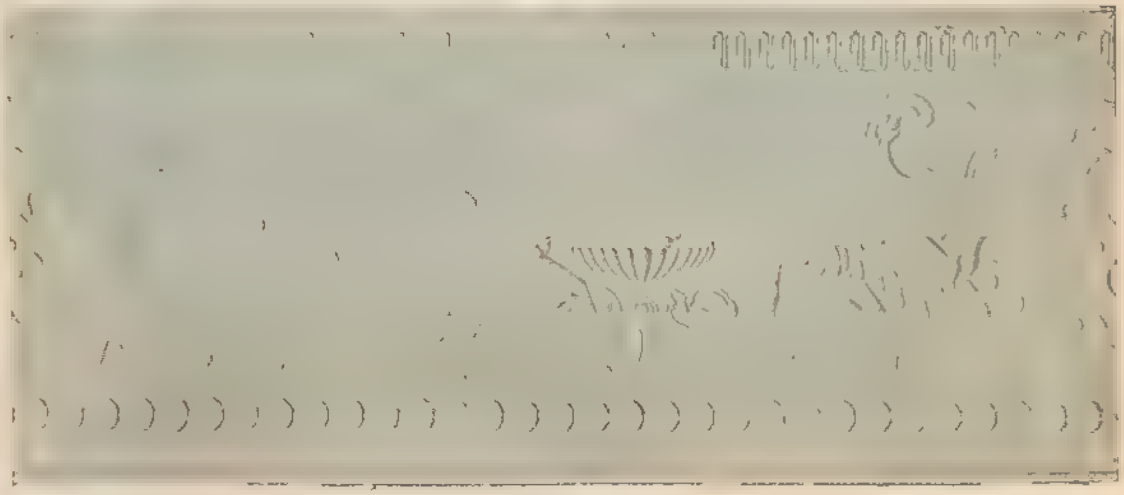
(*Registered Designs*)

Frieze No. 298. 18 in. wide. 3 - per lin. yd.



Frieze No. 1171 18 in. wide. 3 - per lin. yd.

Frieze No. [illegible] 18 in. wide.



In addition to the Dadoes, Friezes, Fillings, Ceilings, &c., &c., the Company make a vast number of Borders, Panels, Dado and Picture Rails, also Plaques in high relief, at very low prices.

For Particulars see List

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18 GOLD, SILVER & BRONZE MEDALS,

INCLUDING

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PAPER STAINERS,

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LIST OF ARTICLES MANUFACTURED AND SOLD.	Dimensions	Time required in which to execute order.	Price	Useful Particulars.
ARTISTIC WALL AND CEILING PAPERS, block printed, free from arsenic	21in. wide by 12 yds long.	A	From 2½d. yd	*We are the orignal makers of guaranteed Non-Arsenical Papers, the Manufacture of which we commenced in 1859.*
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A large collection of damasks and other designs for walls and ceilings, in flat ornament on body, satin, and mica grounds	Various.	A	From 2½d. yd.	
ALHAMBRA PATTERNS	"	B	Various.	
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"ANAGLYPTA," high relief			From 1s. yd.	
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ELIZABETHAN PATTERNS	"	B	"	
FLOCK PAPERS in a great variety of colours ..	"	B	From 9d yd	
PATENT EMBOSSED FLOCK PAPERS, with designs in relief richly modelled, for painting over, and in coloured flocks without painting over ..	"	D	From 3s. 6d. yd.	
RAISED FLOCK PAPERS for painting over, and in coloured flocks on body, satin, or mica grounds, finished without painting over	"	C	From 11½d. yd.	
FRIEZES, including several of extra width and length	"	A	Various.	
ITALIAN PATTERNS	"	B		*Printers of, and Trade Agents for* Mr. J. ALDAM HEATON'S *private designs in Wall and Ceiling Papers (chiefly Italian), including his "Giotto" Decoration, and several patterns o extra width and length.*
JAPANESE LEATHER PAPERS	36in wide by 12 yds long	A	From 28s. per piece	
LEATHER PAPERS, EMBOSSED	Various	C	From 1s. yd.	
LINCRUSTA-WALTON	Various.	A	From 1s. 6d. yd.	
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NON-ARSENICAL COLOURS for decorative distemper work	"	A		
PANELLED DECORATIONS, PILASTERS, and BORDERS	Various.	B		
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"CHEADLE" Designed by G. R. KEMPERLEY.
Price from 4½d. per yard, Rgd. No 140,373.

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Price from 15d. per yard.

FILLING.

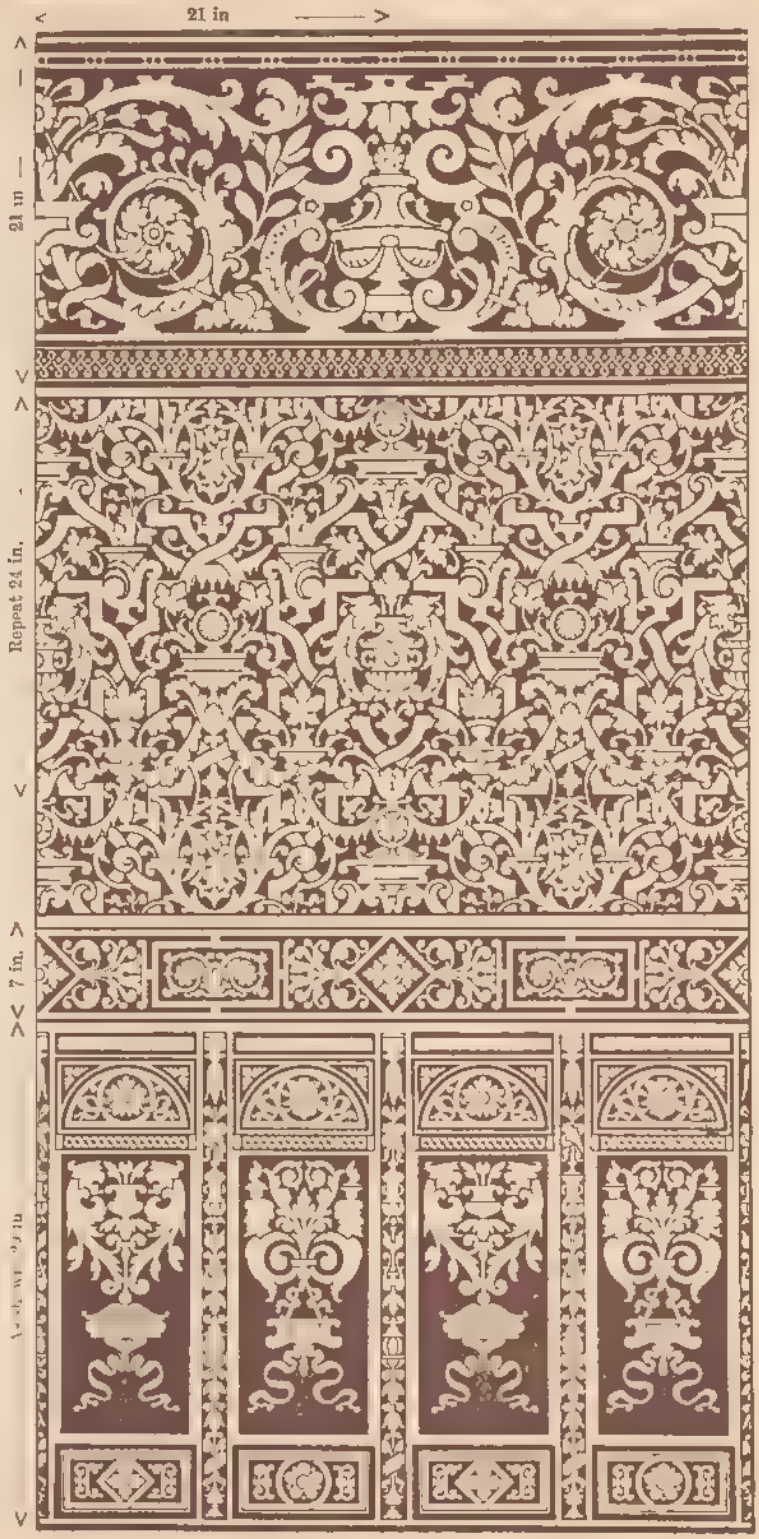
Price from 4½d. per yard.

BORDER.

Price from 4d. per yard.

DADO

Price from 15d. per breadth 21 in. wide. Maximum height 42 in.



This decoration can be made in any shades of body colour (hand printed) to order; also in rich colours and gold, or in raised flock for painting over

A suitable extension of the Dado is provided (without extra charge) by means of which it can be cut on the rake for use on Staircases

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WM WOOLLAMS & Co., BLOCK PRINTED DADO DECORATION.

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Price from 15d. per yard

FILLING.

Price from 4½d. per yard.

BORDER.

Price from 4d. per yard.

DADO.

Price from 15d. per width 21 in wide Maximum height 42 in

This decoration can be made in any shades of body colour, (hand printed) to order, also in rich colours with flock and gold, or in raised flock for painting over.

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WM. WOOLLAMS & CO., BLOCK PRINTED CEILING PAPERS.

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"RAMSGILL" Designed by A. Ramsay.
Price from 3d per yard

"SHAH" Designed by E. H. Williams.
Price from 3½d per yard

"HERBERT" Designed by Owen W. Davis
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THE

COMPLETE CATALOGUE.

Section N.

VARIOUS.

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Blackburn, J.	399	Hands, A., & Co.	402	Surgical Aid Society	402
Foster & Pearson	399	Harling, W. H.	401	Willesden Paper & Canvas Works	404

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N—VARIOUS.

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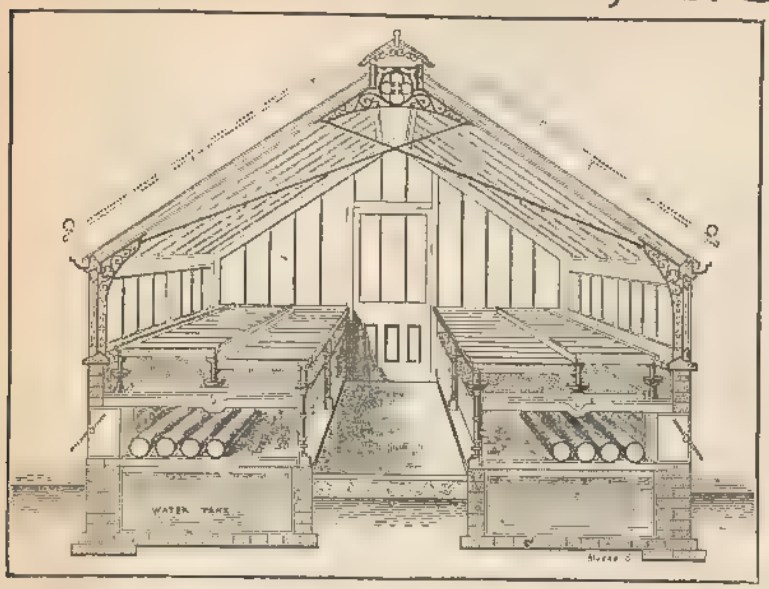

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CRYSTAL PALACE, 1881 2.

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271	Super Royal	N & HP	27 19	5 3
[illegible]	Elephant	N & HP	28 23	7 [illegible]
273	Imperial	N HP & R	31 22	[illegible] 0
274	Double Elephant Quality	N & HP	[illegible] 29	6 6
275	Colombier	N & HP	34 23	10 6
276	Atlas ..	N & HP	34 [illegible]	10 6
277	Double Elephant	N HP & R	40×27	[illegible] 6
278	Ditto Second Quality	N & HP	4[illegible] 27	[illegible] 6
279	[illegible]	N & HP	5[illegible] 31	62 0
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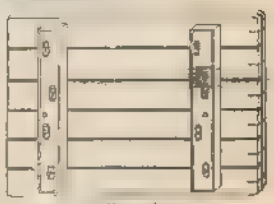
907A Same as [illegible] WITHOUT EBONY ..	3 6	—	6 0	11 0	—
908 HARDWOOD TRESTLES (per pair)	—	—	—	16 0	20 0

Packing Cases for Drawing Boards are charged at cost price, two thirds allowed if returned within seven days, carriage paid duly advised by post



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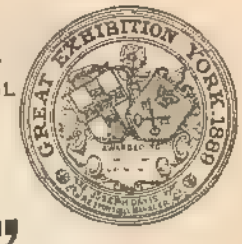

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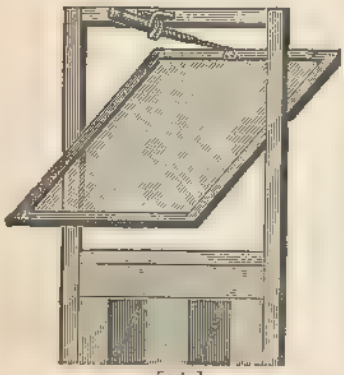

Fig. 1

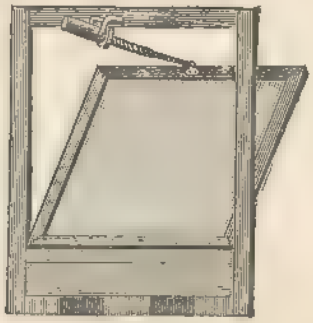

Fig 3

ADAPTED FOR ALL LIGHTS AND CASEMENTS.

To Work with Cord or Handle.

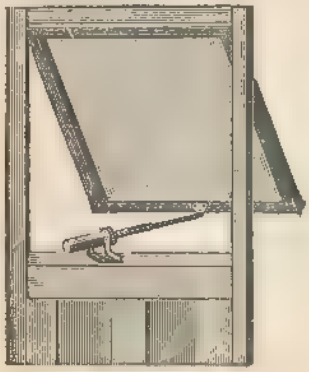

Fig. 2.

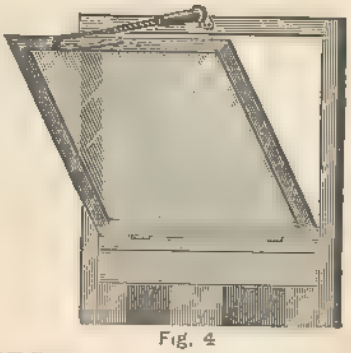

Fig. 4

Fig 5.

ARCHITECTS WAITED ON WITH SAMPLES.

TO BE HAD OF THE MAKER & PATENTEE—

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" TYLOR, J., & SONS, *London.*
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Eureka.—SHANKS & Co., *Barrhead and London.*
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Red Moulded.—ROWLANDS CASTLE BRICK & TILE Co., *London.*
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Blue Staffordshire.—COOPER & SONS, *Stoke-on-Trent.*
,, HARTSHILL BRICK & TILE Co., *Stoke-on-Trent.*
,, SKEY, G., & Co., *Tamworth.*
,, WHEATLEY & Co., *Newcastle.*
Manger.—PEAKE, THOS., *Tunstall.*

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Steel.—Goddard, Massey & Warner, *Nottingham.*
" Main, A. & J., & Co., *London and Glasgow.*
Steel Rivetted.—Dawnay, A. D., *London.*
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Matchless.—C. K. Cooke Manufacturing Co., *London.*
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" " Pryke & Palmer, *London.*
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" Tucker, A. S., *London.*
Stone.—Tucker, A. S., *London.*
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" TURPIN'S CO., LIMITED, *London*

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" WYNDHAM, *Ruabon.*

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2. *Closet and Urinal Cisterns.*

1. General Cisterns and Tanks.

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Cast Iron Tanks.—BENHAM & SONS, *London and Manchester.*
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Flushing, Field's Automatic, Stone's Improved.—STONE, J., & CO., *London.*
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Closet Flushing.—WINN, C., & CO., *Birmingham.*
Deluge Syphon—LEE, HOWL & CO., *Tipton.*
Earthenware Syphon.—SKEY, G., & CO., *Tamworth.*
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National Syphon—TWYFORD, T. W., *Hanley.*
Newman Waste Preventing NORTH BRITISH P[illegible]
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Vacuum Waste Preventing.—DOULTON & CO., *Lambeth.*
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BIRMINGHAM

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2. *Dry Closets.*

1. Water Closets.

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Allen's.—SKEY, G., & CO., *Tamworth.*
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Automatic.—MACFARLANE, W., & CO., *Glasgow.*
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C. WINN & Co.,
St. Thomas' Works, Granville Street,
BIRMINGHAM.

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Emanuel's Pedestal.—EMANUEL, A., & SONS, *London*
Emanuel's Valve.—EMANUEL, A., & SONS, *London.*
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Eskholme's.—GUEST & CHRIMES, *Rotherham.*
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Kensington.—O'BRIEN, THOMAS & CO., *London.*
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Marlborough, Wash Out.—CRAPPER, T., & CO. *London*
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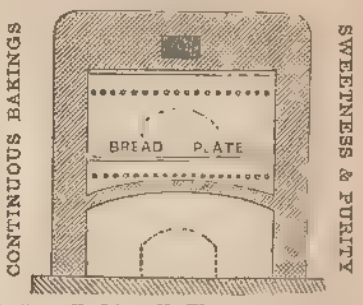

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"Engaged" Bolt, Gibbons' Registered.—GIBBONS, J. *Wolverhampton and London*
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"Excelsior" Shoot.—SMEATON, J., SON & Co., *London.*
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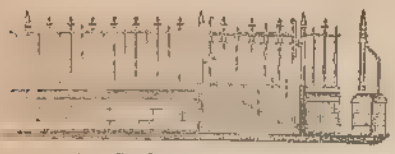

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PAPER.

1. WALL PAPERS, *see* "WALL AND CEILING COVERINGS."
2. WATERPROOF PAPERS, *see* "DAMP PROOF MATERIALS."

Willesden Waterproof. THE "WILLESDEN" WATERPROOF PAPER AND CANVAS WORKS.

PAPIER MACHE.

Decorative.—JACKSON, G., & SONS, *London.*
" PLASTIC DECORATION & PAPIER MACHE CO., *London.*

PAVEMENT LIGHTS.

(SEE "GLAZING.")

PAVING.

(SEE "FLOORING AND PAVING.")

PEDESTALS.

Granite for Statuary.—TUCKER, A. S., *London.*
Marble for Statuary.—TUCKER, A. S., *London.*

PENSTOCKS.

Light Flushing. ADAMS & CO., *York and London.*
Improved Egg-Shaped.—BIRD & CO., *London.*

PICTURE HANGERS.

"Facile." TONKS, W., & SONS, *Birmingham.*
Hookham's Line and Fasteners.—TONKS, W., AND SONS, *Birmingham.*

PIG TROUGHS.

Stoneware.—SKEY, G., & CO., *Tamworth.*

PILE DRIVERS.

Sonnenthal's.—SELIG, SONNENTHAL, & CO., *London.*

PIPES.

1. *Stoneware and Metal.*
2. *Hose.*

1. Stoneware and Metal.

Agricultural Drain. WYNDHAM, H., *Ruabon.*
" TIBBINGTON COLLIERIES AND BRICKWORKS, LIM., *Tipton.*
Buchan's Patent Access.—CRAIG, J. & M., *Kilmarnock.*
"Caledonia" Glazed Sewage.—SPIERS, GIBBS AND CO., *Paisley.*
Cast Iron.—MACFARLANE, W., & CO., *Glasgow.*
Cast Iron Soil.—NORTH BRITISH PLUMBING CO., *London.*
Channel Drain (R. Norman Shaw & T. L. Watson's.)—EDWARDS, J. C., *Ruabon.*
Channel Drain.—WINSER & CO., *London.*
Channel Drain White Enamel Ware.—BROAD AND CO., *London.*
Drain Pipes.—STIFF, J., & SONS, *London.*
Drain Pipes, Non-percolating.—BROAD & CO., *London.*
Drawn Lead Bends.—WINN, C., & CO., *Birmingham.*
Flue.—WYNDHAM, H., *Ruabon.*
Gas. HILDICK & HILDICK, *Walsall.*
" LLOYD & LLOYD, *Birmingham.*
Glazed Sanitary.—GIBBS & CANNING, *Tamworth.*
" HARTSHILL BRICK & TILE CO., *Stoke-on-Trent.*
Glazed Stoneware.—HALL & BOARDMAN, *Swadlincote.*
" STANLEY, BROS., *Nuneaton.*
" TIBBINGTON COLLIERIES AND BRICKWORKS, LIM., *Tipton.*
Hot Water. HILDICK & HILDICK, *Walsall.*
" LLOYD & LLOYD, *Birmingham.*
Hot Water Pipes with Expansion Joints.—ATTWOOD, J., *Stourbridge.*
Hot Water Pipes.—FOSTER & PEARSON, *Notts.*
India Rubber Connections. TWYFORD, T. W., *Hackney.*
Iron.—BROAD & CO., *London.*
" GODDARD, MASSEY & WARNER, *Nottingham.*
" THAMES BANK IRON CO., *London.*
Lead Encased.—FARMILOE, G., & SONS, *London.*
Lever Lock Cast Iron Drain. NORTH BRITISH PLUMBING CO., *London.*
"Perfectum" Rain Water.—GREGSON, J., *Bolton.*
Rock Concrete Tubes.—BOWES SCOTT & WESTERN, *London.*
Sou-Wester, Roof Plate for.—PETTER, J. B., *Yeovil.*
Stiff's Improved Access.—STIFF, J., & SONS, *London.*
Stiff's Chair & Saddle.—STIFF, J., & SONS, *London.*
Stoneware Drain.—BROAD & CO., *London.*
" JENNINGS, GEO., *London.*
Stoneware Sewer.—SKEY, G., & CO., LIMITED, *Tamworth.*
Terra Cotta Flue. SKEY, G., & CO., LIMITED, *Tamworth.*
Water.—HILDICK & HILDICK, *Walsall.*
" LLOYD & LLOYD, *Birmingham.*

2. Hose.

Canvas Hose.—TYLOR, J., & SONS, *London.*
Leather Hose.—TYLOR, J., & SONS, *London.*

PLANT HOUSES.

On Iron Standards.—FOSTER & PEARSON, *Beeston.*

PLASTERS.

Adamant.—ADAMANT CO., LIMITED, *Birmingham.*
Barrow Hydraulic.—ELLIS, J., & SONS, *Leicester.*
Fibrous.—HITCHINS' FIREPROOF PLASTERING CO., *London.*
" JACKSON, G., AND SONS, *London.*
" SCHMIDT, C. M., *London.*
" THE PLASTIC DECORATION & PAPIER MACHE CO., *London.*
Fibrous Slabs.—WILKINSON, W. B., & CO., *London and Newcastle-on-Tyne.*
Non Inflammable Fibrous Slabs.
Plaster. NELSON, C., & CO., LIMITED, *London.*
Wall Plaster Adamant.—ADAMANT CO., LIMITED, *Birmingham.*

PLATES.

Name.—HOFLER, W., & CO., *London.*

PORTABLE HOUSES.

Galvanized Corrugated Iron Buildings.—BLAKELEY E. F., & CO., *Liverpool.*
Willesden Paper & Canvas.—THE "WILLESDEN" WATERPROOF PAPER AND CANVAS WORKS.

POTTERY.

Decorative.—BURMANTOFTS, *Leeds.*

PRESERVATIVES.

Carbolineum Avenarius.—PETERS, BARTSCH, AND CO., *Derby.*

PRESSES.

Hydraulic. OLDROYD, E., *Leeds.*
Screw.—OLDROYD, E., *Leeds.*

PULLEYS.

Axle. "Gibbons' Patent" Roller.—GIBBONS, J., *Wolverhampton and London.*
Patent "Grip" Axle.—BROWN & GREEN, LIMITED, *Luton.*
Wells' Unbreakable.—UNBREAKABLE PULLEY CO., *Manchester.*

PULLEY BLOCKS.

Barnsley's Chain Guides.—SHAW, W., & CO., *Birmingham.*
Gin Block. SHAW, W., & CO., *Birmingham.*
"Hold-Fast."—PIGGOTT BROS., *London.*
Weston's Differential.—SHAW, W., & CO., *Birmingham.*

PUMPS.

Bennison's Patent Rotary.—HYDES & WIGFULL, *Sheffield.*
Brass House. TYLER, H., & CO., *London.*
Centrifugal.—WARNER, J., & SONS, *London.*
Chain.—EVANS, JOS., & SONS, *Wolverhampton.*
Cottage.—TYLOR, J., & SONS, *London.*
Deep Well.—TYLOR, J., & SONS, *London.*
" WARNER, J., & SONS, *London.*
" WINN, C., & CO., *Birmingham.*
Donkey.—HINDLEY, E. S., *London.*
Drainage.—BENHAM & SONS, *London and Manchester.*
Duplex.—EVANS, J., & SONS, *Wolverhampton.*
Evans. EVANS, J., & SONS, *Wolverhampton.*
Evans Tonkin.—EVANS, J., & SONS, *Wolverhampton.*

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Fly Wheel.—HINDLEY, E. S., *London*
" TYLOR, J., & SONS, *London.*
For Wells.—TYLER, H., & Co., *London.*
" TYLOR, J., & SONS, *London.*
Force. EVERED & Co., *London*
Hot Air Engine, and Pumps for Deep Wells.—TYLER, H., & Co., *London.*
Hydraulic.—SMITH, A., & STEVENS *London*
Improved Cottage.—TYLER, H., & Co., *London.*
Lift.—EVERED & Co., *London*
Lift and Force.—EVANS, J., & SONS *Wolverhampton.*
" EVERED & Co., LIMITED, *London.*
" TANGYES, LTD., *Birmingham.*
" TYLOR, J., & SONS, *London.*
Portable Indoor Fire.—MORRIS & SONS, *Manchester*
Pulsometer.—PULSOMETER ENGINEERING Co., *London.*
Pumping Engine, Reliable. EVANS, J., & SONS, *Wolverhampton*
Pumping Gear.—TYLOR, J., & SONS, *London.*
" WINN, C., & Co., *Birmingham.*
Pumps.—WEYMAN & Co., LIMITED, *Guildford.*
Rotary.—TYLOR, J., & SONS, *London.*
"Sandringham" Hand Fire.—BAILEY, W. H., AND Co. *Manchester*
Sewage.—BENHAM & SONS, *London and Manchester*
" TYLER, H., & Co., *London*
" TYLOR, J., & SONS, *London.*
Sewage Direct Acting.—BOWES, SCOTT, AND WESTERN, *London.*
Steam. SMITH & STEVENS, *London.*
" SLATER, J., & Co., *London.*
" WARNER, J., & SONS, *London*
Swivel Spout.—TANGYES LIMITED, *Birmingham*
Warner's. WARNER, J., & SONS, *London.*

RADIATORS.

(SEE "HEATING.")

RAILINGS.

(SEE "GATES AND RAILING.")

RAIN WATER.

1. *Rain Water Goods.*
2. *Rain Water Purifiers.*

1. Rain Water Goods.

Perfectum Pipes.—GREGSON, J., *Bolton.*
Wallas's Patent Open Intercepting Trapped Waterhead. SANITARY & DOMESTIC ENGINEERING Co., *London.*

2. Rain Water Purifier.

Roberts' Separator.—ROBERTS, C. G., *Haslemere.*

RANGES.

(SEE "KITCHENERS AND RANGES.")

RAMS.

Hydraulic.—TYLER, H., & Co., *London*
" WARNER, J., & SONS, *London.*

READING DESKS.

(SEE "DESKS.")

READING STANDS.

Deltoid.—TONKS, W., & SONS, *Birmingham.*

REFLECTORS.

Chappuis' Patent.—CHAPPUIS, *London.*

REFRIGERATORS.

Refrigerators.—BENHAM & SONS, *London and Manchester.*

ROOFS AND ROOFING.

(FOR GLAZED ROOF, *see* GLAZING.")

Copper.—BRABY, FRED., & Co., LIMITED, *London, Liverpool, and Glasgow*
Homan's Improved Flat Brick.—HOMAN AND RODGERS, *London and Manchester*
Iron.—BLAKELEY, E. F., & Co., *Liverpool.*
" GODDARD, MASSEY, & WARNER, *Nottingham*
" MAIN, A. & J., & Co., *London and Glasgow.*
" ROWSON, DREW, & Co., *London.*
" ST PANCRAS IRONWORKS Co., *London.*
Iron Riveted.—DAWNAY, A. D., *London.*
Steel. GODDARD, MASSEY, & WARNER, *Nottingham*
Steel Riveted. DAWNAY, A. D., *London.*
Willesden Waterproof.—THE "WILLESDEN" WATERPROOF PAPER & CANVAS WORKS
Zinc.—BRABY, FRED., & Co., LIMITED, *London, Liverpool, and Glasgow.*

ROPES.

Steel.—DIXON & CORBETT, *Gateshead-on-Tyne.*
" NEWALL & Co., *Gateshead-on-Tyne.*
" SHAW, JOHN, *Sheffield.*
Wire.—BULLIVANT & Co., *London.*
" WARRINGTON WIRE ROPE WORKS, *Liverpool.*

RUST PREVENTERS.

Anti-Oxide.—PETERS, BARTSCH & Co., *Derby.*
"Eclipse." SUTCLIFFE BROS., *Manchester.*

SAFES.

"City."—WHITFIELD, F., & Co., *Birmingham and London.*
Chubb's New Patent.—CHUBB & SON, *London.*
"Demon Holdfast."—PRICE'S SAFE, LOCK, AND ENGINEERING Co., LIMITED, *Wolverhampton*
Fireproof.—BENHAM & SONS, *London and Manchester*
" PERRY, T., & SONS, LIMITED, *Bilston.*
" PRICE'S G.) SAFE AND LOCK Co., LIMITED, *Wolverhampton*
" SKIDMORE, T., & SONS, *Wolverhampton.*
" WHITFIELD, F., & Co., *Birmingham and London.*
"Invincible."—CHATWOOD, *London.*
"Office."—WHITFIELD, F., & Co., *Birmingham and London.*
Steel.—SKIDMORE, T., & SONS, *Wolverhampton.*
Triumph Unpickable Lock.—WALKER & WORSEY, *Birmingham.*

SAFETY VALVES.

(SEE "VALVES.")

SASHES AND FRAMES.

(SEE "WINDOWS.")

SASH FASTENERS.

(SEE "WINDOW & SKYLIGHT FITTINGS.")

SASH LINES.

Copper.—ANDERSON, R., & Co., *London.*
Henry's Line Fastener. HENRY, COL. R. E., *London.*
Hookham's Metal Protector.—TONKS, LIMITED, *Birmingham.*
Iron.—ANDERSON, R., & Co., *London.*
Steel. ANDERSON, R., & Co., *London.*
Wedge Line Holder.—MEAKIN & Co., *London.*

SASH PULLIES.

Russell's Anti-Friction.—WHITE & SONS, *London*
Solid Frame, Oilable.—MEAKIN & Co., *London.*

SAW BENCHES.

Hand Power.—HINDLEY, E. S., *London.*
Self Feeding.—HINDLEY, E. S., *London.*

SCALES.

"Agate." BAYLISS, WM., & Co., *Birmingham.*

SCRAPERS.

Scrapers.—BALDWIN, SON, & Co., LIMITED, *Stourport.*

SEATS.

Church.—HAMMER, G. M., & Co., *London.*
Mission Hall.—HAMMER, G. M., & Co., *London.*
Reversible Sunday School.—HAMMER, G. M., & Co., *London.*

SEWAGE.

Field's New 1889 Patent Automatic Flushing Chamber.—BOWES SCOTT & WESTERN, *London.*
Glazed Sewer Bottoms.—FOSTER, H., *Bishop Auckland.*
Improved Sludge Filter Press. BOWES SCOTT AND WESTERN, *London.*
Invert Blocks for Sewers.—STIFF, J., & SONS, *London.*
Patent Liming Machine.—BOWES SCOTT AND WESTERN, *London.*
Pumps.—BOWES SCOTT & WESTERN, *London.*
Shone Hydro-pneumatic System.—HUGHES AND LANCASTER, *Chester.*

SEWAGE PUMPS.

(SEE "PUMPS.")

SHELF FITTINGS.

Tonks' Patent.—TONKS, LIMITED, *Birmingham.*

SHINGLES.

Oak.—AGATE, J. & S., *Horsham and London.*

SHOP FRONTS.

Brass.—DYSON & Co., *London.*
Bronze.—DYSON & Co., *London.*
Cast Iron.—MACFARLANE, W., & Co., *Glasgow.*

SHUTTERS.

Bostwick Folding.—BOSTWICK FOLDING GATE AND SHUTTER Co., LIMITED, *London.*
Revolving.—HODGKINSON & Co., LIMITED, *Birmingham.*
" MALLINSON, W., *Manchester.*

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SIGNS.

Enamelled.—ANGLO-AMERICAN TIN STAMPING CO., *Stourport.*
Wrought Iron.—STRODE & CO., *London.*

SILICATE COTTON.

Silicate Cotton.—ANDERSON & SON, LIMITED, *London and Belfast.*

SINKS.

Cane Coloured Glazed.—GIBBS & CANNING, *Tamworth*
Combined Wash Up.—JENNINGS, GEO., *Stangate.*
Drainer and Slop Receiver.—TYLOR, J., & SONS, *London*
" WOODWARD AND ROWLEY, *Swadlincote*
Drainer and Wash Up.—WOODWARD, J. & ROWLEY, *Swadlincote.*
Enamelled.—TYLOR, J., & SONS, *London*
Glazed.—SKEY, G., & CO., LIMITED, *Tamworth*
" STANLEY, BROS., *Nuneaton.*
Household Slop.—JENNINGS, GEO., *Stangate.*
" TYLOR, J., & SONS, *London.*
Housemaid's Slop.—TYLOR, J., & SONS, *London.*
Newman Porcelain Glazed.—NORTH BRITISH PLUMBING CO., *London.*
Square Top Slop Receiver.—WOODWARD, J., AND ROWLEY, *Swadlincote.*
Stoneware.—SKEY, G., & CO., LIMITED, *Tamworth*
" STIFF, J., & SONS *London.*
White Enamelled.—BROAD & CO., *London.*
" TYLOR J., & SONS, *London.*
White Enamel Fire Clay.—TYLOR, J., & SONS, *London.*

SKYLIGHTS.

Iron with Patent Lifter.—VERITY BROS., *Leeds.*

SLAGWOOL.

Slagwool.—ANDERSON & SON, LIMITED, *London.*

SLATES.

Blue.—PEN-YR-GRSEDD SLATE QUARRY CO., LIMITED
Buttermere Green.—BUTTERMERE GREEN SLATE CO., LIMITED, *Keswick.*
Enamelled.—TUCKER, A. S. *London.*
Green.—ELTERWATER GREEN SLATE CO., LIMITED *Westmorland.*
Green.—THE BUTTERMERE GREEN SLATE CO., LIMITED, *Keswick.*
Purple.—PEN-YR-GRSEDD SLATE QUARRY CO., LIMITED
Roofing.—ELLIS, PARTRIDGE, & CO., *Leicester.*
School (with Patent Movements).—HAMMER, G.M., AND CO., *London.*
Tilberthwaite Green.—TILBERTHWAITE GREEN SLATE CO., *Kendal.*

SLOP CLOSETS.

(SEE "SINKS.")

SMITH'S HEARTHS.

Cyclops Patent.—ROWNSON, DREW & CO., *London, E.C.*

SMOKE CURERS.

(SEE "COWLS.")

SNOW DISPERSER.

Botting's Patent.—BOTTING, E., *London.*

SOUND PROOFING.

Fibrous Concrete.—WILKINSON, W.B., & CO., *Newcastle-on-Tyne and London.*
Silicate Cotton.—ANDERSON & SON, LIMITED, *London.*

SPRINGS.

(SEE "DOORS.")

STABLE FITTINGS.

(SEE "FITTINGS.")

STAINED GLASS.

(SEE "GLAZING.")

STAINS.

Stains.—THE SILICATE PAINT CO., *London.*
Transparent Stains for Wood.—SWINBURN, F., *London.*

STAIRCASES.

Concrete.—WILKINSON, W. B., & CO., *Newcastle-on-Tyne and London.*
Iron.—COTTAM & WILLMORE, *London.*
" HAYWARD BROS., & ECKSTEIN, *London.*
Marble.—GOODDY, CRIPPS & SONS, LIMITED, *London Liverpool and Bristol.*
Spiral Iron.—MACFARLANE, W., & CO., *Glasgow.*
" ST. PANCRAS IRONWORK CO., *London.*
Straight Iron.—MACFARLANE, W., & CO., *Glasgow.*
" ST. PANCRAS IRONWORK CO., *London.*
Wood.—TURPIN'S PARQUET FLOOR, JOINERY AND WOODCARVING CO., LIMITED, *London.*
Wrought Iron.—SMITH, C., & SONS, LIMITED, *Birmingham and London.*

STALL PLATES.

Diamond Pattern.—DYSON & CO., *London.*
Fluted.—DYSON & CO., *London.*

STANCHEON.

Cast.—DAWNAY, A. D., *London.*
" ROWNSON, DREW & CO., *London.*
Wrought Iron.—ROWNSON, DREW & CO., *London.*

STEEL.

Mild.—SUTTON & ASH, *Birmingham.*

STENCIL PLATES.

(SEE "PLATES.")

STONES.

1 *Natural.*
2. *Artificial.*

1. Natural.

Alton, Red and White.—HODSON, J., & SON, *Nottingham.*
Ancaster.—ANCASTER STONE CO., *Grantham.*
LINDLEY QUARRIES, *Ancaster*
Box Ground.—BATH STONE FIRMS, LIMITED, *Bath.*
Cefn.—DENNIS & CO., *Cefn.*
Chilmark.—LILLY, T. P., *Gillingham.*
Chromolith or Colour Stone.—ADAMANT CO., LIMITED, *Birmingham.*
Combe Down.—BATH STONE FIRMS, LIMITED, *Bath.*
Corlegrit.—BATH STONE FIRMS, LIMITED, *Bath.*
Corsham Down.—BATH STONE FIRMS, LIMITED, *Bath.*
Craigleith.—CREW, J. & A., *London.*
Farleigh Down.—BATH STONE FIRMS, LIMITED, *Bath.*
Grinshill Building.—TRICKETT, P., *London.*
Hopton Wood.—KILLER BROS., *Middleton-by-Wirksworth.*
Kentish Rag.—BENSTEAD & SON, *Maidstone.*
Monks' Park.—BATH STONE FIRMS, LIMITED, *Bath.*
Stoke Ground.—BATH STONE FIRMS, LIMITED, *Bath.*
Red Mansfield.—FISHER BROS., *Mansfield.*
" LINDLEY QUARRIES, *Mansfield.*
" SILLS, WM., *Mansfield*
Westwood Ground.—BATH STONE FIRMS, LIMITED *Bath.*
White Mansfield.—FISHER BROS., *Mansfield.*
" LINDLEY QUARRIES, *Mansfield.*
" SILLS, WM., *Mansfield.*
Winsley Ground.—BATH STONE FIRMS, LIMITED, *Bath.*
Yellow Magnesian Limestone.—FISHER BROS., *Mansfield.*
" LINDLEY QUARRIES, *Mansfield.*
" SILLS, WM., *Mansfield.*

2. Artificial Stone.

Artificial Stone.—LASCELLES, W. H. & CO., *London.*
Concrete Castings.—WRIGHT, J., & CO., *New Malden.*
Granolithic Stone.—STUART'S GRANOLITHIC STONE PAVING CO., LIMITED, *London.*
Imperishable Concrete Masonry.—FAMBRINI AND DANIELS, *Lincoln.*
Lascelles' Concrete.—LASCELLES, W. H., & CO., *London*
Silico Granite Stone.—PATENT SILICO GRANITE STONE CO., *London.*
Victoria.—PATENT VICTORIA STONE CO., *London.*
Wright's Stonite Rock.—WRIGHT, J., & CO., *New Malden.*

STONE BREAKERS.

"Multiple Action."—SAVILE STREET FOUNDRY AND ENGINEERING CO., LIMITED, *Sheffield.*

STOVES.

"Abbotsford."—CLARK, HUNT & CO., *London.*
" COZENS & SHAW, *Wolverhampton*
" TUCKER, A. S., *London.*
"Acme" Gas Stove.—HILL, A., & CO., *Birmingham.*
Acme Metal Gas Fires.—HILL, A., & CO., *Birmingham.*
Acme Asbestos Gas Fires.—HILL, A., & CO. *Birmingham.*
Asbestos Spirit Stove.—LIVERPOOL LAMP CO., *Liverpool.*
Bishopsgate Cooking Self-Setting.—CHAMBERS, MONNERY & CO., *London.*
Bishopsgate Smoke Preventing.—CHAMBERS, MONNERY & CO., *London.*
Cadogan Gas Fire.—STRODE & CO., *London.*
Cambridge.—COZENS & SHAW, *Wolverhampton.*
" TUCKER, A. S., *London.*
Carbotron Heating and Cooking.—PETERS, BARTSCH & CO., *Derby*
Church.—BROWN & GREEN, LIMITED, *London*

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"Clipper" Lamp Stove. — ALBION LAMP CO., *London*

Country Parson's Grate.—BARNARD, BISHOP, AND BARNARDS, *Norwich and London*

"Cupola" Grate.—COZENS & SHAW, *Wolverhampton.*

Dog Grates. BENHAM & SONS, *London*

EDWARDS, F., & SON, *London.*

"Eclat." VERITY BROS., *Leed*

Edwards' Slow Combustion and Smoke Consuming. BENHAM & SONS, *London and Manchester.*

Fletcher's Patent Warm Air.—BENHAM & SONS, *London and Manchester*

Galton's Ventilating.—FALKIRK IRON CO., *London, and Falkirk*

Gas.—BAILY, W., & SONS *London*

MALCHAN'S PATENT GEYSER CO., LIMITED, *London*

Wilsons' WILSON C., & SON, *Leeds.*

Gem Portable Cooking Stove. BROWN & GREEN, LIMITED, *London*

Grundy's Hot Water Heaters (Boilers).—GRUNDY, JOHN, *London and Tyldesley.*

Grundy's Patent Warming and Ventilating.—GRUNDY, JOHN, *London and Tyldesley*

Gurney.—LONDON WARMING AND VENTILATING CO., *London*

Helms. HELMS, H., *London*

Mail Clad Stove.—PETTER, J. B., *Yeovil.*

Manchester Grate. SHORLAND, E. H., *Manchester Trade Mark,* **"Manchester Grate."**

Manchester School Grate.—SHORLAND, E. H., *Manchester Trade Mark,* **"Manchester School Grate."**

MANCHESTER STOVE.

E. H. SHORLAND, *Manchester.*

TRADE MARK.

MANCHESTER STOVE.

Mantel Registers.—WRIGHT & CO., *Rotherham.*

Marlborough. COZENS & SHAW, *Wolverhampton.*

" TUCKER, A. S., *London*

"Nautilus" Dog Grate. PETTER, J. B., *Yeovil.*

Norfolk Patent Stoves. BARNARD, BISHOP, AND BARNARDS, *Norwich and London.*

Norwich Stoves.—BARNARD, BISHOP, & BARNARDS, *Norwich and London.*

Parsons.—O'BRIEN, THOMAS & CO., *London.*

Patent Perfect Control Grate.—TUCKER, A. S., *London*

Patent Portable.—PETERS, BARTSCH & CO., *Derby*

Rumford Teale.—VERITY BROS., *Leeds.*

Sandringham. COZENS & SHAW, *Wolverhampton.*

" PRYKE & PALMER, *London.*

TUCKER, A. S., *London*

Slow Combustion.—BARNARD, BISHOP & BARNARDS *Norwich.*

" EDWARDS, F., & SON, *London*

" FALKIRK IRON CO., *London and Falkirk.*

" O'BRIEN, THOMAS & CO., *London.*

Smokeless Grates.—EDWARDS, F., & SON, *London*

Sterling.—TUCKER, A. S., *London.*

"Syphon" Gas Heating.—CLARK, S., & CO., *London*

Teale Fireplaces.—TEALE FIREPLACE CO., *Leeds.*

"The Cosy" Grate.—REEVE & BATCLIFFE, *London.*

"The Scottish Chief Slow Combustion."—SPRINGFIELD FOUNDRY CO., *Falkirk*

"The Union."—HAYWARD BROTHERS & ECKSTEIN, *London*

"Thornaby" Stove.—R. W. CROSTHWAITE, *Stockton-on-Tees.*

Tiled.—EDWARDS, F., & SON, *London.*

" FALKIRK IRON CO., *London and Falkirk.*

" O'BRIEN, THOMAS & CO., *London.*

"Tortoise" Boiler Stove.—PORTWAY, C., & SON, *Halstead*

Ventilating Grates.—EDWARDS, F., & SON, *London.*

Wharncliffe Warm Air Ventilating Grate. STEEL AND GARLAND.

STRONG ROOMS.

(STRONG ROOM FITTINGS, *see* "FITTINGS.")

Chatwood's Steel Bankers.—CHATWOOD'S PATENT SAFE & LOCK CO., *Bolton and London.*

Fireproof.—BENHAM & SONS, *London and Manchester*

" PERRY, T., & SON, *Bilston*

Wrought Iron, Fittings for.—FARROW & JACKSON, *London.*

SUN BURNERS.

Patent Ventilating.—STRODE & CO., *London.*

SURVEYING & LEVELLING INSTRUMENTS.

Levels.—HARLING, W. H., *London.*

Theodolites. HARLING, W. H., *London.*

SYPHONS.

(SEE ALSO "CISTERNS AND TANKS.")

Field's New 1889 Patent Self-Acting Annular. BOWES SCOTT & WESTERN, *London.*

Self-acting Flushing.—TYLOR, J., & SONS, *London.*

TABLES.

Altar. HAMMER, G. M., & CO., *London.*

Billiard.—ORME & SONS, *Manchester.*

Lectern.—HAMMER, G. M., & CO., *London*

Marble Cafe.—TUCKER, A. S., *London.*

Pedestal Writing Table.—HAMMER, G. M., & CO., *London.*

Vestry.—HAMMER, G. M., CO., *London.*

TANKS.

(SEE "CISTERNS AND TANKS.")

TERRA COTTA.

Architectural.—BLANCHARD, M. H., & CO., *Bishops Waltham.*

" BURMANTOFTS CO., *Leeds.*

" CLIFF, J., & SONS, *Wortley.*

" DOULTON & CO., *London.*

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" SKEY, G., & CO., LIMITED, *Tamworth*

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" STANLEY BROS., *Nuneaton*

" STIFF, J., & SONS, *London.*

Buff.—COOPER, J. K., & SONS, *Maidenhead.*

" WOOLLISCROFT, G., & SON *Hanley.*

Garden Edging.—ROWLANDS CASTLE BRICK AND TILE CO., *London.*

" SKEY, G., & CO., LIMITED, *Tamworth*

Horticultural.—SKEY, G., & CO., LIMITED, *Tamworth.*

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Panels.—PEAKE, THOS., *Tunstall*

Panels & Strings.—HARTSHILL BRICK & TILE CO., *Stoke-on-Trent*

Red.—COOPER, J. K., & SONS, *Maidenhead.*

" ROWLANDS CASTLE BRICK AND TILE CO., *London*

" WOOLLISCROFT, G., & SON, *Hanley.*

TIDAL VALVES.

(SEE "VALVES.")

TILES.

Anglo-Persian. EDWARDS, J. C., *Ruabon*

Anglo-Roman.—CRAVEN, DUNNILL & CO., *London.*

" EDWARDS, J. C., *Ruabon.*

Antique. GODWIN, W., & SON, *Withington*

Barbotine Painted. CRAVEN, DUNNILL & CO., *London*

" EDWARDS, J. C., *Ruabon*

" MAW & CO., LIMITED, *Jackfield.*

Bath.—CRAVEN, DUNNILL & CO., LIMITED, *London*

Benthall Ware. MAW & CO., LIMITED, *Jackfield.*

Blue, Red, Brown, and Buff.—COOPER & SONS, *Stoke-on-Trent.*

" WHEATLY & CO., *Newcastle.*

Broseley.—PRESTAGE & CO., *Broseley*

" BROSELEY TILERIES COMPANY, LIM., *Broseley*

" EXLEY, W., & SONS, *Broseley*

" HAUGHTON, R. D., *Broseley*

" MADELEY WOOD CO., *Ironbridge.*

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Ceiling. CRAVEN, DUNNILL & CO., LIMITED, *London*

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Crosses.—COOPER, J. K., & SONS, *Maidenhead.*

Drip. ROBSON, *London*

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" CLIFF, J., & SONS, *Wortley*

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" EDWARDS, J. C., *Ruabon*

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" COLLIER, S. & E., *Reading*

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" EDWARDS, J. C., *Ruabon.*

" HARTSHILL BRICK AND TILE CO., *Stoke-on-Trent.*

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Garden Border.—CADDICK, J., *Stoke-on-Trent*.
" HARTSHILL BRICK AND TILE CO., *Stoke-on-Trent*.
JONES, W. & P., *Broseley*.
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" MAW & CO., LIMITED, *Jackfield*.
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" MAW & CO. LIMITED, *Jackfield*.
Jackfield.—CRAVEN, DUNNILL & CO., LIMITED, *Jackfield and London*.
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Marble. GOODDY, CRIPPS & SONS, LIMITED, *London, Liverpool, and Bristol*.
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Mediæval.—CRAVEN, DUNNILL & CO., LIMITED, *Jackfield and London*.
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Mosaic. TURPIN'S PARQUET FLOOR, JOINERY AND WOODCARVING CO. LIMITED, *London*.
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Phillips Patent Lock jaw.—PHILLIPS, C. D., *Monmouth*.
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" WOOLLISCROFT, G., & SON, *Hanley*.
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Printed. CRAVEN, DUNNILL & CO., LIMITED, *Jackfield and London*.
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Red Plain.—ROSHER, F., & CO., *London*.
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Ridge. COOPER, J. K., & SONS, *Maidenhead*
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" CADDICK, J., *Stoke-on-Trent*.
" COLLIER, S. & E., *Reading*
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Honduras Mahogany.—HARRIS, J. F. & G., *London*.
Oak.—HARRIS, J. F. & G., *London*.
Pine.—HARRIS, J. F. & G., *London*.
Pitch Pine.—HARRIS, J. F. & G. *London*.
Spruce.—HARRIS, J. F. & G., *London*.
Teak. HARRIS, J. F. & G., *London*.
Tobasto Mahogany. HARRIS, J. F. & G., *London*.
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Walnut.—HARRIS, J. F. & G., *London*.
Whitewood.—HARRIS, J. F. & G., *London*.

TIMBER PRESERVATIVES.

Burnettizing.—BURNETT, SIR W., & CO., *London*.

TOOLS.

Machine.—BUTTERFIELD, F. & J., & CO., LIMITED, *York*
" TANGYES, LIMITED, *Birmingham*.
Joiners.—ATKIN & SONS, *Birmingham*.

TRAPS.

Adams'. ADAMS & CO., *York and London*.
Automatic Grease Interceptor.—DOULTON & CO., *Lambeth*.
Automatic Tidal Valve.—DYER, F., *London*.
Bavin Dip. STIFF, J., & SONS, *London*.
Birds.—CLIFF, JOSEPH & SONS, *Wortley*.
Brown's Patent Accessible Syphon Traps. INGHAM & SONS, *Leeds*.
Buchan's.—CRAIG, J. & M., *Kilmarnock*.
Cecil. CLIFF, JOSEPH & SONS, *Wortley*.
Davis's Non Stealable Drain Trap. HAYWARD, S., *Mount*.
Dodd's. CLIFF, JOSEPH, & SONS, *Wortley*
Drawn Lead. TYLOR, J., & SONS *London*
WINN, C., & CO., *Birmingham*.
Grease Earthenware.—TYLOR, J., & SONS, *London*
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Grease Excello.—BROAD & CO., *London*.
Gulley.—STIFF, J., & SONS, *London*.
Gulley, Iron.—TYLOR, J., & SONS, *London*.
Gulley, Earthenware.—TYLOR, J., & SONS, *London*.
Gulley, White Enamel.—BROAD & CO., *London*.
"Invicta" Intercepting.—RIMINGTON BROS. AND CO., *Newcastle-on-Tyne*.
Jennings Ventilating and Drain.—JENNINGS, GEO., *Stangate*.
Kenon Air Shaft.—DOULTON & CO., *Lambeth*.
Kensington. STIFF, J., & SONS, *London*.
Langford Fat.—STIFF, J., & SONS, *London*.
Lowes' Effluvia.—GUEST & CHRIMES, *Rotherham*
Newman Grease with Baffle Plates. NORTH BRITISH PLUMBING CO., *London*.
Newton's Gully. GUEST & CHRIMES, *Rotherham*
Patent Earthenware Disconnecting.—TYLOR, J., AND SONS, *London*.
Simplex.—CLIFF, JOSEPH, & SONS, *Wortley*.
Stiff's Interceptor.—STIFF, J., & SONS, *London*.
Weatherly Sink. STIFF, J., & SONS, *London*.
Weaver's Ventilating.—STIFF, J., & SONS, *London*
Winser's.—CLIFF, JOSEPH, & SONS, *Wortley*.
Winser's Intercepting.—WINSER & CO., *London*.

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TREADS.

Patent Silicon.—DOULTON & Co., *Lambeth.*

TREE GUARDS.

Iron.—BAYLISS, JONES, & BAYLISS, *Wolverhampton and London.*
" HAYWARD, W., & SONS, *Wolverhampton.*

TROUGHS.

Cow.—RUABON GLAZED BRICK & FIRE CLAY CO., LIMITED, *Ruabon.*
Pig.—RUABON GLAZED BRICK AND FIRE CLAY CO., LIMITED, *Ruabon.*

TUBES.

Compressed Air.—LLOYD & LLOYD, *Birmingham.*
SPENCER, J., *Wednesbury.*
Boiler.—SPENCER, J., *Wednesbury.*
For Electric Light Wires.—LLOYD & LLOYD, *Birmingham.*
Galvanized High and Low Pressure.—LLOYD AND LLOYD, *Birmingham.*
Gas.—HILDICK & HILDICK, *Walsall.*
LLOYD & LLOYD, *Birmingham.*
SPENCER, J., *Wednesbury.*
Hydraulic.—SPENCER, J., *Wednesbury.*
Iron.—HILDICK & HILDICK, *Walsall.*
" LLOYD & LLOYD, *Birmingham.*
" SPENCER, J., *Wednesbury.*
Solid Drawn Brass.—WALKES, J., MAPPERBECK AND CO., *Birmingham.*
Steam.—HILDICK & HILDICK, *Walsall.*
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" SPENCER, J., *Wednesbury.*
Steel.—WELDLESS STEEL TUBE CO., *Birmingham.*

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LLOYD & LLOYDS,
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(SEE "FITTINGS.")

TURNSTILES.

Stark's Self Registering.—STARK, *London.*

TYINGS.

Patent Safety.—BARTON & BALLARD, *London.*

UMBRELLA HOLDERS, &C.

Rowland's Climax.—CARTLAND, J., & SON, *Birmingham.*
Stands.—BALDWIN, SON, & CO., LIMITED, *Stourport.*
" HOFLER, W., & CO., *London.*
Hough's Patent Holder.—PATENT UMBRELLA HOLDER CO., *London.*

UNIONS.

Malleable Iron.—ASHTON, T. A., *Sheffield.*

URINALS.

Adams.—ADAMS & CO., *York and London.*
Armstrong's Patent Automatic Flush.—CRAIG, J. & M., *Kilmarnock.*
Bedford.—TYLOR, J., & SONS, *London.*
" WOODWARD & ROWLEY, *Swadlincote.*
Bedford with Flushing Rim.—WOODWARD, J., AND ROWLEY, *Swadlincote.*
Improved Ornamental.—GODDARD, MASSEY, AND WARNER, *Nottingham.*
Jennings.—JENNINGS, GEO., *Stangate.*
Macfarlane's Patent.—MACFARLANE, W., & CO., *Glasgow.*
Patent Syphon Cradle.—TYLOR, J., & SONS, *London.*
Porcelain Enamelled Iron.—CLARK, T. & C., & CO., *Wolverhampton.*
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Bateman & Moore's Fine Cock.—GUEST & CHRIMES, *Rotherham.*
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Fire Valves.—TYLOR, J., & SONS, *London.*
Fresh Air Mica Inlet.—CRAPPER, T., & CO., *London.*
Frictionless Air Escape Safety.—OLNEY, T. C., *Manchester.*
Guest & Chrime's Gas Valves.—GUEST & CHRIMES, *Rotherham.*
Guest & Chrimes Sluice Cocks.—GUEST & CHRIMES, *Rotherham.*
Hot Water & Screw Slide.—*HARTLEY & SUGDEN, LIMITED, *Halifax.*
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Mica Non Return.—NORTH BRITISH PLUMBING CO., *London.*
Newman Through Way for Baths.—NORTH BRITISH PLUMBING CO., *London.*
Non-concussive Lavatory.—TYLOR, J., & SONS, *London.*
Patent "Waste Not" Bib.—TYLOR, J., & SONS, *London.*
Patent "Waste Not" Stop.—TYLOR, J., & SONS, *London.*
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Vulcanised Fibre.—*MOSSES & MITCHELL, *London, E.C.*

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" HOWORTH, J., & CO., *Farnworth and Manchester.*
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Blackman "Air Propeller.—BLACKMAN AIR PROPELLER VENTILATING CO., LIMITED, *London.*
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" TONKS, W., & SONS, *Birmingham.*
"Cyclops" Exhaust & Pressure Fans.—ROWNSON, DREW & CO., *London, E.*
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" BUMSTEAD, F. D., *Stafford.*
Fans.—BENHAM & SONS, *London and Manchester.*
Flue Outlets.—PICKUP, J. H., & CO., *Bolton.*
Fresh Air Mica Inlets for Drains.—HAYWARD BROS. & ECKSTEIN, *London.*
Gibbs Noiseless Outlet.—GIBBS, J., & SON, *Liverpool.*
Gibbs' Patent Weatherproof Extractors.—GIBBS, J., & SON, *Liverpool.*
Heap's Hydro-Caloric Radiator and Inlet.—HEAPS, T. A., & CO., *Huddersfield.*
Hit and Miss Ventilators.—HAYWARD BROS. AND ECKSTEIN, *London.*
Honeyman's.—CRITTALL, R., *London.*
Howorth's Horizontal Screw Exhauster & Blower.—HOWORTH, J., & CO., *Farnworth and Manchester.*
Howorth's Radial Screw.—HOWORTH, J., & CO., *Farnworth and Manchester.*
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M.P. Flue Extractor—GLAHOLM AND ROBSON, *Sunderland.*

Nettlefolds.—NETTLEFOLD & SONS, *London.*

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Outlet.—SHORLAND, E. H., *Manchester.*

Patent.—ST. PANCRAS IRONWORK CO., *London.*

"Perfection" Stable.—BARTON AND BALLARD, *London.*

Roof Exhaust.—PICKUP, J. H. & CO., *Bolton.*

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Sherringham's.—BOOBYER, J. H., *London.*

" SHORLAND, E. H., *Manchester.*

Ship.—KERSHAW, A. W., & CO., *Lancaster.*

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PRICE BOOK.

COMPILED BY

HENRY LOVEGROVE, F.S.I., A.R.I.B.A.,

District Surveyor for South Islington, and one of the Quantity Surveyors to the School Board for London.

THE following is an attempt to supply Current Prices in a clear and comprehensible form for the use of practical men. The work for the present year is divided into four Sections.

Section I.—Schedule in all Trades.
Section II.—Schedule for a Dwelling House.
Section III.—Schedule for a Church.
Section IV.—Builders' Measured Bill.

SECTION No. 1.—SCHEDULE IN ALL TRADES.

EXCAVATOR.

	s.	d.	
Dig and throw out not exceeding 6 ft deep	0	8	per yd cube
For every additional 6ft. add	0	3	,,
Digging filling in and ramming, add .	0	2	,,

Wheeling, add 2½d. for 50 yards run, and 1d. per yard cube for every 25 yards run beyond

Basketing out ground, add 4d. per yard cube.

Planking and strutting, 2d per foot super

Do., do to trenches, both sides measured, 1d. per foot super.

GLAZED STONEWARE DRAINS.

2 in. Diameter socket joints in cement, and digging average 2 ft. 6 in. deep, and filling in	0	5	per ft. run
3 in Do., do.	0	6	,,
4 in. Do., do.	0	8	,,
6 in. Do., do.	0	10½	,,
9 in Do., do	1	8	,,
12 in. Do., do.	1	3	,,
(And add digging.)			
15 in. Do. do	2	9	,,
(And add digging.)			
18 in Do., do	3	9	,,
(And add digging.)			

Add for 4 in bends, 1s 9d. each, and 6 in bends, 2s. 3d each.

4 in Single junctions	2	0	each
6 in Do	3	8	,,
4 in Double do.	3	0	,,
6 in Do.	4	0	,,
4 in Syphon traps .. .	3	0	,,
6 in Do.	4	0	,,

Add if with inlet, 1s

4 in Sink or closet traps	1	0	,,
6 in Do.	6	0	,,
4 in Jenning's connections	2	0	,,
6 in Do.	3	0	,,

Stanford's patent joints 20 per cent. more than above

Bedding and covering pipe drains in lias lime concrete from 2 in. to 9 in., from 6d. to 1s 6d. per foot run

Yard gullies, 8 in. square at top, 4 in outlet, 4s. each. Iron grating, 1s. extra.

Do heavier pattern, 8½ in. square inside, 4s. 6d. each. Iron grating, 1s. 9d extra.

Do. 9 in diameter, 4 in. outlet, 5s. each. If with dished cover and iron grating, 4s. extra.

CONCRETE FOUNDATIONS

Concrete composed of ground lime and pit ballast for foundations (1 to 6), 8s. 6d. to 9s. per yard cube

Do., with Thames ballast, 9s. to 11s. per yard cube.

Do. two-thirds selenitic lime and one third Portland cement with Thames ballast (1 to 7), 14s per yard cube.

If composed of broken brick or stone chippings, deduct 1s. 6d. per yard cube

If composed of Portland cement and Thames ballast (1 to 7) 14s per yard cube.

If thrown from a stage 6 to 8 feet above ground level, add 6d. per yard.

FLOORING.

Lime concrete, composed of broken brick or rough core and ground lime, laid under floors 6 in thick, including levelling and ramming ground	1	6	per yd sup
Do., composed of pit ballast and ground lime, do. do. do.	1	9	,,
Portland cement concrete, four of ballast or coke breeze to one of cement do. ..	3	6	,,
Do gauged, six to one, do	2	9	,,
If on upper storeys, add for each storey ..	0	1½	,,
Trowelled cement face 1 in. thick, as floor ..	2	0	,,

BRICKLAYER AND TILER

BRICKWORK ALL MATERIALS

The following prices are calculated at the p. c. rate of stocks at £1 10s. per 1,000 delivered, and grizzles, £1 6s.

An allowance of 5s per rod must be made for the variation of every shilling under or above that price.

An addition must be made of from 10 to 20 per cent for work done in small quantities or difficult positions.

In cesspool, &c., laid dry	9	18	0	per rod reduced
Do. of stock do	10	17	6	,,
Brickwork of grizzles, and mortar composed of stone, lime, and Thames sand	11	10	0	,,
Do. half grizzles and half stock ..	12	0	0	,,
Do. one-third grizzles and two thirds stock	12	13	0	,,
Do. all stock	12	10	0	,,
Do. of gault bricks at p. c. £2 8s. per 1,000	16	17	6	,,
If with blue lias, add	0	10	0	per rod

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Bricklayer and Tiler (*continued*)—

Extra only in Portland cement (1 of cement to 1 of sand), add ..	£2 10 0	per rod
Half brick walls in mortar	0 4	per ft. sup.
Do. in cement	0 5	"
If in small work, add	0 1	"
One brick garden walls worked fair both sides and joints struck	0 10	"
Extra only for circular face	0 1	per ft. sup.
Do. for battering face	0 0¾	"
Do. for struck joint for lime-whiting	0 4½	"
Cutting away in old wall and pinning, and bonding new work into same, averaged half brick, into old wall in cement with struck face	1 0	per ft. sup.
Pulling down cleaning and stacking bricks (including scaffolding) .. .	[illegible] 10 0	per rod.
Building hollow walls, the cavity 2 in. to 3 in. in width, with one galvanised iron tie to every 3 ft. super of wall, the brickwork measured net, extra only	0 2½	per ft. sup.
One course of brick on edge in cement ..	0 4	per ft. run
1½ brick on edge do. do. ..	0 6	"
12 in. tile coping set in cement	0 8	"
Rendering in cement finished from the trowel	0 2	per ft. sup.
Iron bond, No. 15 gauge, 1½ in. wide, tarred and sanded and laid in walls	0 2	per yd. run
Rough cutting to rakes or ramps	0 2	per ft. sup.
Fair Do. do. do.	0 4	"
Rough Do. to 4 in. splay	0 3	per ft. run
Fair Do. do . ..	0 4	"
Rough Do. to birdsmouth or squint quoin	0 3	"
Fair Do. do. do. do. ..	0 4½	"
Rough Do. to bullnosed angle	0 8	"
Fair Do. do. do.	0 4½	"
Chased 4 in. wide, cut and parge	0 5	"
Do. 9 in. do. do.	0 6½	"
Points to groined arches in stock	0 9	"
Do. do. in malms	1 0	"
Double plain tile creasing in cement to 9 in. wall	0 4½	"
Do. to 14 in. wall	0 8	"
Lime and hair filleting..	0 1½	"
Cement "	0 2	"
Rake out and point to flashings in cement ..	0 1½	"
Do. to step " " ..	0 2	"
Coach head trimmers, half-brick thick, in cement	0 6	per ft. sup.
Sash and door frame bed and point.. ..	1 6	each
Large " and Venetian "	2 0	"
Make good to window sill . 0 6 to	1 2	"
Cutting and pinning edge of 4 in. landing in cement .. .. 0 4 to	1 0	per ft. run
Do. do. 6 in. " 0 4 to	1 3	"
Do. 3 in. stone template, up to 12 in. × 12 in.	1 0	each
Do. 4 in. to 6 in. " up to 18 in. × 18 in.	1 6	"
Do. Ends of stone tread and riser ..	0 9	"
Do. do. solid step	0 9	"
Do. do. iron joints..	0 9	"
Do. do. large "	1 6	"
Do. do. iron bar	0 4	"
Do. do. small timbers	0 6	"
Do. do. large "	1 6	"

Building in and making good to the above, one fourth of the prices given.

Damp Course.

Two courses of stout slates in cement ..	0 4	per ft. sup.
½ in. British asphalte .. .. .. 0 4 to	0 5	"
½ in. Seyssel " .. .. .. 0 5 to	0 7	"
For vertical work add one half to do.		
Fibrous asphalte in slabs	0 2	"
Glazed earthenware 1½ in. thick in cement..	0 7	"
Do. 2½ in. "	0 11½	"
Pointing to edge of slate or asphalte, lamp course	0 1½	per ft. run

Bricklayer and Tiler (*continued*)—

Brick Nogging—(*The quarters to be measured in*)

	s. d.		s. d.	
With place bricks ..	3 4	per yd. sup. on edge,	4 5	flat
Do. Stock " ..	3 10	" "	5 0	"
If in cement add ..	0 8	" "	1 11	"

Facings—(*Extra only upon price of brickwork*).

	s. d.	
Stocks	0 1	per ft. sup.
Picked do.	0 1½	"
Bright yellow fronts	0 2	"
Malms, seconds	0 4½	"
Do. best	0 5	"
Red facings .. .. 0 2 to	0 4	"
Suffolk best white .. .. .. 0 5 to	0 6	"
Do. red .. . 0 4 to	0 5	"
Do. do. rubbers (not gauged work)	0 10	"
Do. rubbed, gauged, and set in putty ..	2 0	"
Do. do. do. reduced to 5 courses to the foot	3 3	"
Kent gault bricks, best pressed	0 3½	"
Do. wire cut	0 2½	"
Beart's hand-made, solid	0 3	"
Do. best whites, perforated	0 2	"
Do. seconds	0 1½	"
Luton purple bricks	0 2½	"
Fareham red "	0 5½	"
Do. thin, rising five courses to the foot	0 8	"
Loughborough white, best pressed	0 5	"
Do. red "	0 4½	"
Best pressed Staffordshire	0 5½	"
White glazed brick, equal quantity of headers and sketchers, extra only on stocks ..	2 0	"

Arches.

Stocks with axed soffites	0 9	"
Do Gothic elliptical or Venetian, 9 in.	1 2	"
Second malms, tuck pointed	1 6	"
Best washed malms or red bricks, camber, segment, or semi-circular, gauged, rubbed and set in putty	1 8	"
Do. Elliptical	2 0	"
Do. Circular on plan, add to the above	2 1	"
Mouldings in gauged and cut malms, set in putty	2 6	"
Do. Circular on plan	4 0	"

Pointing (*per foot super.*)

Including scaffold, raking out decayed mortar and washing and staining bricks.

Flat joint in ash mortar	0 3	per ft. sup.
Do. in cement	0 4	"
Do. to chimney shafts	0 5	"
Do. to fence walls	0 3	"
Tuck pointing to old fronts	0 5	"
Brickwork coloured and drawn	0 4½	per yard
(Extra over items.)		
Tuck pointing, new work	0 2½	per ft. sup.
Cut joint pointing	0 1½	"
Raking out cement joints and pointing with flat joint in white mortar	0 2½	"
Limewhiting, per yard super., two coats ..	0 1½	"
Dinging	0 9	per yard

Paving.

Laid in and pointed, per yard, with	Sand. s. d.	Mortar. s. d.	Cement. s. d.
Grey stock, flat	2 6	3 3	4 0
Do. on edge	3 6	4 3	5 3
Malm paviours, flat	4 6	5 6	6 1
Do. on edge	5 8	6 7	7 6
Suffolk white bricks, flat	6 0	7 0	7 7
Do. do. on edge ..	9 0	9 11	10 9
Paving bricks, flat	4 1	4 8	5 4
Do. on edge	6 1	6 10	7 11
Ware white paving bricks, flat ..	3 11	4 5	5 4
Do. herring bone, add	0 6	0 6	0 6
Do rubbed and faced to close joints, add	1 8	1 8	1 8

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Bricklayer and Tiler (*continued*)—

Laid in, per yard super., with	Sand. s. d.	Mortar. s. d.	Cement. s. d.
Dutch clinker paving			11 9
Adamantine paving			12 9
Do. bevelled			13 6
If laid herring-bone, add			1 0
9 in., 10 in., and 12 in. tiles	5 0	6 0	7 0
Blue Staffordshire paving bricks, flat			7 0
Blue chequered, on edge			8 [illegible]
Blue building, brick flat			7 [illegible]
Do. on edge ..			[illegible]
Do. pressed, best quality, flat			7 [illegible]
Do. on edge .			10 9
Blue Staffs. chamfered stable bricks			7 6
Rim cutting to rake, &c.		8d. per foot run	
Add for concrete bed (per yard sup.)			2 2
Add for finished surface do.			0 4
Add for floated bed do.			1 6

Tile and Mosaic Pavements.

Staffs. tiles laid in cement, blue or red, per yard sup.	7 0
Staffs. best pressed in blue, red, buff, and black (laid to pattern), per yard super.	10 0

Best quality tiles, in designs ½ in. thick, 8s. to 12s. at works.
If ⅞ in. thick, add 3s. per yard.
Packing and carriage, 3s. per yard.
Laying in cement, 2s. 3d. to 4s. per yard.

Encaustic Tiles.

6 in. × 6 in. at from	0 6 to 1 2	each
8 in. × 8 in. at from	0 2 to 0 4	„
6 in. × 6 in. White glazed tiles	3 0	per doz.
8 in × 8 in Do	8 9	„
Halves of 6 in. Do.	2 6	„
6 in. × 6 in. Do. fixed complete	1 6	per ft. sup.
Do. octagons do...	2 0	„

Roof Tiling.

Pan tiles laid dry, 10 in. gauge	1 5 6	per square
Do. bedded in hair and ash mortar ..	1 8 6	„
Do., do. pointed outside, filleting and heading included	1 11 6	„
Do., do., do inside do	1 13 0	„
Do., do., do both sides do.	1 19 2	„
If 11 in. gauge, deduct	0 2 0	„
If 12 in. Do.	0 3 0	„
Heading to pan tiling	0 0 3½	per ft. run
Cuttings to hips and splays	0 0 2½	„
Ridge and hips	0 0 4½	„
Hip hooks painted (3) and nails	0 1 0	each
Painted T nails	0 0 2	„
Old pantiling stripped, new lathed, and retiled dry, allowing 20 new tiles to a square	1 0 0	per square
Plain tiles on double fir laths, and wrought nails showing on the face 4 in. 1 18 0 to	3 0 0	„
Do. showing 3½ in.	2 5 0	„
Do., do. 3 in...	2 10 0	„
If with Staffs. tiles, add	0 10 0	„
On oak laths, add	0 3 6	„
Old plain tiling stripped off, new double fir laths, and re-tiling..	1 2 6	„
Do., and allow 100 new tiles per square 1 7 6 to	1 8 9	„
Barge or verge	0 0 2½	per ft run
Flats of two courses of plain tiles bedded in Portland cement	2 5 0	per square
Do. three do.	3 5 0	„
Rendering surface with cement	0 16 6	„
Terra Cotta chimney pots 2 ft. high, set in cement	0 5 6	each
Do. 2 ft. 6 in. high do.	0 6 9	„
Do. 3 ft. high. do.	0 10 6	„
If set in plain tiles and cement, add ..	0 0 9	

Bricklayer and Tiler (*continued*)—

Red chimney pots and setting—

	In Mortar. s. d.	In Cement. s. d.
2 ft. high	4 0	5 0 each
3 ft. high	7 6	9 0 „
4 ft. high	9 0	11 6 „
6 ft. high	11 0	13 [illegible] „

Glazed stoneware kitchen sinks—

2 ft. × 1 ft 5 in × 3½ ft.	0 [illegible] 0	each
4 ft 2 ft. × [illegible] ft .. .	1 [illegible] 0	
Angular sinks, 2 ft each way 3 in deep	0 [illegible] 0	„

White glazed porcelain sinks—

2 ft × 1 ft [illegible] in. and 14 in. deep .	0 12 6	„
3 ft. × 2 ft. do.	1 [illegible] 0	„
4 ft. × 2 ft. do.	1 15 0	„
Corner sinks, 1 ft. 8 in. each way, 6 in. deep	1 [illegible] 0	„
Housemaid's sinks 2 ft. 8 in × 1 ft. 6 in. × 9½ in. deep . ..	1 1[illegible] .	„

White glazed butler's sinks—

2 ft 1 in × 1 ft 4 in. 10 in. ..	1 13 0	„
1 ft. 10 in × 1 ft. 3 in × 8 in. .	1 7 0	„

Grease trap—

20 in. × 12 in. × 12 in...	1 [illegible] 0	„
24 in. × 18 in. × 18 in	2 2 0	„

Setting Stoves.—All Materials.

Registers up to 30 in.	0 6 0	„
Elliptic or hob stoves rendered in cement at sides, &c.	0 7 0	„
Self-acting kitchen ranges, oven, and boiler—		
30 in.	1 5 0	„
36 in.	1 10 0	„
48 in.	2 0 0	„
Close fire kitcheners, including smith's attendance—		
Up to 48 in.	3 0 0	each
Up to 60 in.	4 0 0	„
Up to 72 in.	5 10 0	„

Washing coppers, including all material and labour, the face of brickwork finished with a struck joint, and the top rendered with cement—

Up to 18 in. diameter	1 15 0	„
Up to 24 in. do.	2 10 0	„

MASON.

Portland stone, including hoisting and setting	4 0	per ft cube
Bath stone do., do.	3 0	„
Sawing on Portland	0 7½	per ft sup.
Do. on Bath	0 3	„
Bed and joint Portland	0 5	„
Do. Bath	0 [illegible]	„
Plain face Portland	0 10	„
Do. Bath	0 [illegible]	„
Moulding Portland	2 0	„
Do. Bath	1 0	„
Do. in cap, &c., Portland	[illegible]	„
Do., do. Bath	1 [illegible]	„
Ashlar 4 in. on bed Portland	2 [illegible]	„
Do. do. Bath	1 [illegible]	„
1½ in. Portland paving	1 [illegible]	„
2 in. Do.	2 [illegible]	„
3 in Do	[illegible]	„
8 in × 3 in. Portland rubbed, weathered, sunk, and throated sill . .	2 0	per ft run
12 in × 2½ in. Do., do., and throated coping	[illegible]	„
6 in. × 6 in. Do., do. curb		„
Throating	[illegible] 1	„
Chamfer narrow..	[illegible] 1	„
Rebate	2	„
Sunk do.	[illegible]	„
Rustics	0 1	„
Back joint	0 1[illegible]	„
Joggle joint	1 1	„
Cutting and pinning landing, 6 in .	0 4	„
Do. 8 in. ..	[illegible] 6	„

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Mason (*continued*)—

Yorkshire Stone.

	s	d.	
3 in. Tooled one side landings, and all labour	1	9	per ft. sup.
Add for scantling sizes as prime cost ..	0	2	"
7 in. × 2½ in. Rubbed, weathered, and throated sill	1	4	per ft. run
8 in. × 3 in as last, and sunk .. .	1	6	"
7 in × 6 in Tooled curb	1	8	"
9 in. × 6 in. Do.	2	3	"
9 in. × 6 in Tooled step	2	3	"
12 in × 6 in. Do	5	5	"
Rubbed, add	0	2	"
12 in. × 2½ in. Tooled coping..	1	6	"
2 in. Tooled paving	1	0	per ft. sup.
2 in Rubbed do.	1	2	"
Mortices and lead	0	9	
Iron dowels and mortises	0	8	

Kentish Rag Stone.

Walling	16	6	per yd. cube
Random coursed work	20	0	"

Stone Walling.

Rough rubble walling	16	6	per yd. cube

Paving.

Granite paving 5 in. thick	9	6	per yd. sup.
Do. 9 in. thick	16	9	"

Asphalte.

Damp course ½ in. thick	0	4	per ft. sup.
Do. ¾ in. "	0	5	"
Paving ¾ in. thick	0	5½	"
Do. 1 in. "	0	7½	"
Seyssel asphalte, add	0	2½	"
Tar paving, 3 in. thick	2	6	per yd. sup.
Wood block paving, about	10	0	"
Patent Victoria Stone 2 in. thick (laid)	0 10 to 0 11		per ft. sup.

SLATER

Ladies' copper nailed	32	0	per sq.
Countesses "	28	6	"
Duchesses "	40	0	"
Imperial "	42	6	"
Whitland Abbey	47	6	"
Williams' ridge and roll . ..	1	6	per ft. run
Hips and ridges, ordinary	1	2	"
¾ in. slate slabs, planed one side	1	0	per ft. sup.
1½ in. Do. do.	1	6	"

CARPENTER AND JOINER.

Centring	0	4½	per ft. sup
Do. to 4½ in. soffite	0	6	per ft. run
Circular "	0	9	"
Fir in wall plates and lintels .. .	2	0	per ft. cube
Do. framed in roofs, floors, and partits.	2	3	"
Do. do. braced or trussed . ..	3	0	"
Planing on fir	0	0½	per ft. sup.
Battening, 2½ in. × 1 in., for slates	5	9	per sq.
Sound boarding and fillets	17	0	"
¾ in. boarding for slates..	16	0	"
1 in. ploughed and tongued boarding.. .	27	0	"
Add for firrings, average	5	0	"
Rough fillet	0	1	per ft. run
Tilting "	0	2	"
Herring-bone strutting	0	3	"
Solid "	0	4	"
Roll for lead	0	2	"
Roofing felt	0	1	per ft. sup.
¾ in. eaves or lier board	0	4	"
1 in. gutter board and framed bearers ..	0	5	"
1½ in. Do. do. ..	0	6½	"
Deal dovetailed cesspools ..	2 3 to 3 0		each
Deal cross-rebated drips ..	0 4 & 0 6		"
Oak fencing, 4 ft. cleft pales with two arris rails and posts 9 ft. apart, fixed complete	44	0	per rod of [16ft. 6 in. run
Do. 6ft. " "	66	0	"

Carpenter and Joiner (*continued*)—

	s	d	
2 in. Oak plank floor	105	0	per sq.
1 in. Yellow batten flooring	18	0	"
1 in. do. do.	20	0	"
1½ in. do. do. ploughed and tongued with hoop iron	24	0	"
¾ in. × 6 in. square skirting plugged to wall	0	4	per foot
1 in. × 9 in. Turns " " ..	0	7	"
1½ in × 12 in moulded " " ..	[illegible]	[illegible]	"
2 in. Oval moulded fixed sashes	0	7½	per ft sup
Do. hung	0	8	"
Deal cased frames, oak sunk sills, and 2 in deal moulded sashes double hung with pulleys, lines, and iron weights.. ..	1	4	per ft sup.
2 in. rebated and moulded skylight	0	9	"
1 in. framed, ledged, and braced door ..	0	6	"
1½ in. Do do.	0	9	"
2 in. four panel square door .. 0 9 to	0	10	"
Do. bead, butt and square door ..	0	10	"
Do. bead, flush and " ..	0	10½	"
Do. moulded and square " ..	0	11	"
Do. moulded both sides " ..	1	0	"
Do. bolection moulded " ..	1	3	"
2½ in. Do. do. ..	1	5	"
1½ in. square framed both sides partition ..	0	8	"
2 in. moulded both sides " ..	1	0	"
¾ in. wrought one side lining	0	4	"
1 in. Do. and rebated "	0	6	"
1½ in. Do. and double rebated partition	0	8	"
1½ in. Do. do. and double beaded partition	0	10	"
¾ in. wrought framed and splayed grounds..	0	4½	"
1½ in. Do. and rounded window board and bearer	0	7½	"
Chamfered fillet as architrave	0	2	per ft. run
Moulded architrave, 3 in. wide	0	3	"
Do. 4 in. wide (including mitres)	0	4	"
1½ in. tongued and rounded nosing	0	2½	"
1½ in. angle fillet and mitre	0	2	"
2 in. square framed mahogany doors ..	4	0	per ft. sup.
2 in. moulded and square	4	4	"
Do. both sides	4	8	"
2½ in. moulded and square	5	0	"
Do. both sides	5	6	"
¾ in. deal matched and beaded or V jointed wall lining, in batten widths	17	6	per square
Add for backings	2	6	
If plugged	4	0	

Stairs.

1 in. rounded treads and ¾ in. risers, glued, blocked, and bracketted	0	11	per ft sup
1¼ in. Do. do. do.	1	0	"
1½ in. moulded Do. do.	1	5	"
1¼ in mitred to cut string	1	[illegible]	"
1½ in. framed outer string	1	10	per ft run
Do. rebated and beaded	1	0	"
Do. wreathed	3	0	"
1½ in. plain wall string and plugging ..		11	
Do. ramped	1	[illegible]	"
Do. wreathed		0	"
1¼ in. square baluster	0	1½	"
2½ in. framed newel	0	8	"
Turnings, each .. .. 1 to	1	[illegible]	"
Turnings to balusters, each	0	[illegible]	"
2 in. deal rounded handrail	0	7½	"
2 in. mahogany rounded handrail . .	1	[illegible]	"
2½ in. deal moulded handrail	1	2	"
2½ in mahogany rounded handrail	2	[illegible]	"
Mahogany caps	[illegible]	[illegible]	each

IRONMONGER

3 in. iron butts	1	3	per pair
4 in. Do	1	[illegible]	"
3 in. iron rising	2	6	"
4 in. Do.	3	6	"
12 in cross garnetts	1	9	"
18 in. Do.	3	0	"

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Ironmonger (*continued*)—

	s.	d.	
2 in. cross butts	1	9	per pair
3 in. Do.	2	6	,,
Japanned iron Cockspur casement fastening	0	9	each.
Brass Do. do.	1	2	,,
12 in Japanned iron casement stays ..	1	3	,,
Brass casement stays	3	9	,,
Tonk's casement stays, 12 in. arm in iron	2	6	,,
Do. do. do. Brass	1	6	,,
5 in. cabin hooks, iron (and add fixing)	0	9	,,
Do. brass do. .	1	6	,,
10 in. Do. iron do. ..	1	6	,,
Do. brass do. ..	3	6	,,
6 in. rim dead lock	3	9	,,
8 in. Do.	5	6	
6½ in. rim lock and cast furniture	6	0	,,
7½ in. Do. do. .	7	6	,,
6 in. four-lever wine cellar lock	9	0	,,
8 in. iron rim drawback lock and brass furniture	7	6	,,
9 in. Do. do. do.	9	0	
6 in. two bolt mortise lock and furniture, 7s. 6d. to 9s. 3d. each			
7 in. Do. do. do. 8s. 6d. to 11s. each			
6 in. two-bolt four lever mortise lock ..	11	6	each
Half rebated, add	1	6	,,
Full rebated, add	4	0	,,
6 in. mortise drawback lock	11	0	,,
4 in. mortise deadlock	6	0	,,
6 in. Do.	6	9	,,
4 in. japanned night latch	3	6	,,
4 in. five guard Bramah latch	10	0	,,
4 in. two bolt brass pulpit latch .. .	5	0	,,
Iron japanned cupboard lock	1	9	,,
Tonk's patent door furniture, 4s. 2d. per set, and upwards			
4 in. iron barrel bolts	0	6	each
12 in. Do.	1	3	,,
4 in. brass barrel bolts	1	8	,,
12 in. Do.	6	6	,,
4 in. brass flush bolts	0	10	,,
12 in. Do.	2	6	,,
1½ in brass dresser hook	2	0	per dozen
Norfolk thumb latch	1	0	
Japanned iron barrel door chains	2	0	,,
Greenwood draught excluder	0	6½	per foot
½ in. iron picture rod, painted	0	5	,,
1 in. Do. do	0	7	,,

SMITH AND FOUNDER.

Balconies, from 4s. and upwards per foot run. Allow for pattern
Tomb railings, from 2s. to 20s. per foot run
Girders and columns, from 8s. to 10s. per cwt.
Present prices of rivetted girders, 9s. 6d., delivered in London
Built up girders, English iron, from 12s. 6d. to 14s., depends on section and weight
King and Queen head brackets, panels, &c., 12s. to 15s. per cwt.
Chimney and bearing bars, per cwt., 18s. to 20s., fixed
Coal plates, 2s. each, up to 17s. or 18s.
Sash weights, 6s. 6d. per cwt.
3 in rain-water pipe, 6d per foot
4 in. Do 8d. do
3 in. head, 2s each and upwards, governed by style and pattern
4 in head, 3s Do do do
Shoes, 1s for 3 in., and 1s. 9d. for 4 inch
Half round gutter, 3½ in., 10d per yard, fixed
Do. 6 in., 1s. 6d. do.
Nozzles and angles, 1s 4d to 2s. each
Bolts and nuts, £1 8s 8d. per cwt
Framed gratings, £1 8s to £2 per cwt., according to size
Square baluster, £1 16s. per cwt
Handrail and baluster, £3 per cwt.
Framed gates £2 2s., to 6×9, or according to design
Guard bars, £2 2s. per cwt.
Casements with saddle bars, £3 10s. per cwt.
Wrought iron casements, 2s. to 8s. per foot sup.
Wrought iron galvanised cisterns, 6d. per gallon to 10d.
Copper hole doors and frames, 2s. to 4s and 7s. 6d.
Rolled iron joists, 9s. per cwt.
Wrought iron girders, 12s. per cwt.
Flitch plates, 10s. 6d. to 12s. per cwt.

Smith and Founder (*continued*)—

Common elliptic stoves, 4½d per inch
Do do. with black wrought bars, 6d. per inch
Rumford stoves, 6d. per inch
Kitchen grate, 30 in., £1 10s.; 42 in., £1 15s.
Leamington bars, from 6s to 12s. and 17s. 6d. each
Do. with tile sides, up to £10
Dog grate, 15s 6d. to £4 5s.
Kitchen range, 30 in. £1 19s; 44 in., £2 10s. each
Close fire oven and boiler range, 42 in., £11 10s.; 54 in., £12 12s.

Stable Fittings.

Galvanized iron manger, 3 ft. long ..	1	7	6	
Do. 6 ft.	2	15	0	
Do. Manger and rack	3	10	0	
Patent loose box sills	0	1	4	per ft.
10 in. Horse pots	0	5	6	
12 in. do.	0	8	6	
Mare pots	5	0 to 0	7	6
Hayward's lights	6	6 to 0	10	6
2 in. Hot water trough pipes .. .	0	4	0	per yd
4 in. Do.	0	7	3	,,
Galvanized iron hot-water cisterns—				
20 gallons	1	17	6	
100 Do.	5	5	0	

ZINC WORKER.

No. 14 gauge zinc	0	0	6	per ft. sup.
No. 16 do.	0	0	7½	,,
4 in Gutter	0	0	8	per ft. run
6 in. Do.	0	1	2	,,

Electric Bells.

Single stroke bell..	13	0 to 1	7	6
Continuous	17	6 to 1	10	6
Wire gongs..	17	6 to 1	7	0

PLASTERER

Plastering, per yard super. Labour and Materials.

	s.	d.
Plaster or render one coat rough on brick	0	6
Do. and set with fine stuff	0	8
Do. two coats and set	0	10
Render, float, and set	1	0
Circular, add 3d. per yard.		
Lathing only with single fir laths	0	6
Do. and plaster one coat	1	0
Do. do. and set with fine stuff	1	2
Do. do. gauged work	1	4
Do. do. two coats and set	1	4
Do. do. do. gauged work ..	1	6
Do. plaster, float, and set partitions	1	6
Do. do. do. ceilings	1	7
Do. do. do. flowing soffits of stairs 3d. per foot		
Circular, add 3d. per yard.		

If set with gauged putty, add	2½	per yard
If lath and half, add..	3d.	,,
If double laths, add	4d.	,,
Floors of lime and hair trowelled face	[illegible]	,,
Do. do on lath ..	[illegible]	,,
Gauging with plaster each coat, add . .	2[illegible]	,,
Do with cement, add	[illegible]	,,
Quirk, per foot run	½d.	per foot
Arris do.	1d.	,,
Bead and double quirk	4d.	,,

Stucco, per yard.

Stucco on brick, imitation of stone	1	0
If washed sand is used, add	0	0½
Do. on lath	1	10
Trowelled stucco on brick	1	1
Do. on lath	1	11
Dadoes and ceilings, add	0	3½
Small groins and niches on brick, per foot sup. circular	0	4
Do. do. on single fir laths, circular ..	0	5
Do. do. on double do. ..	0	7
Spherical on double fir laths	1	1
Jamb soffites and panels, narrow width on brick ..	0	4
Do. Do. do. do. on lath .	0	5

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Plasterer (*continued*)—

	s.	d.
Stucco reveal to windows 4½in. face, per foot run ..	0	7
Do. 9in. face	0	8

Quirks to wood bead, single, per foot run..1d. and 1½d. circular
Do. double „ 1½d. and 2½d. „
Arris Edge .. .. .. „ 1d. and 1½d. „
Bead and double quirk .. „ 5d. and 8d. „
Do. elliptical .. .. „ 9d. „

Pugging of coarse stuff and chopped hay, 1½in. thick, on sound boarding (timbers not to be deducted) per square .. 5/0
Pugging of coarse stuff and chopped hay, 1½in. thick, on single fir laths, per square 10/6

Moulded cornices in plaster .. .. -/10
Dubbing out on brick included, but bracketting extra.
Mouldings under 6in. girth, per inch girth .. .. 1d.
Do. 6in. girth and upwards, per foot super. .. 1/-
If on lath add 1d per foot.
All mitres above four in number to be charged each at the price of a foot run of moulding.

Soffites and Friezes in Plaster—

Floated and set in putty on lath, 12in. wide and under per foot super.	0	4
Floated grounds to facias or coffers, per inch in width on lath, per foot run	0	1
Raised margins to form panels, on lath, 4 in. wide .. .. 3½d. per foot run		
If wider, add per inch .. .. .. 1d. „ „		

Blocks, medallions, dentil trusses, &c., being so varied in design, the surveyor must judge of the value of them.

Enrichments in plaster, per foot run—

Members cast solid and trimmed, per inch girth ..	0	1¾
Do. undercut do. do.	0	3
Hollow Members or enrichments put up, single girth	0	2½
Enriched soffites, per inch wide	0	1½
Do. do. very rich and full..	0	2½
Wreaths of laurel leaves, per inch in width, circular	1	0
Do. of oak leaves and acorns „ „ ..	1	9½

Outside Plastering, per yard super

If above ¾ of an inch in thickness, extra.

Render and rough cast on brick with Dorking lime ..	1	0
Do floated	1	3
Trowelled or rough stucco, with blue Lias lime and washed Thames sand, and jointed (on brick) ..	1	6
Trowelled as last on lath	2	0
Do. do. and half	2	2
Moulding, per foot super	1	0
Arris, per foot run	0	1

Keene's Patent Cement.

Coarse quality. Trowelled on brick, per yard, super .	2	10
Do. do. on lath. „ „	3	4
Do for paving, 1½ inch thick, on concrete „	4	0
Panel with small moulding, per foot super .	0	11
Pilasters facias, architraves, and door jambs per foot super	0	7
Plain moulding, 6 inch wide and under, per inch girth 2d. per foot.		
Do. 12½ per foot super .. .. 1/6 „		
Skirting 9 inches high, with moulding 3 inches girth, per foot run	0	10
Arris	0	1¾
1½ inch floor mixed with stone dust to imitate Portland stone, per yard super	5	0
Plain face on lath highly polished, per foot super ..	3	0
Do. in panels, pilasters, shafts, friezes, &c., per foot..	3	0
Shafts of columns and pedestals „ ..	3	6
Plain mouldings, per foot super	4	0

Parian Cement.

Trowelled on brick, per yard super	3	0
Do. on lath „	3	6
Mouldings, per foot super	1	6
Parian cement polished plain white, per foot super ..	1	3
Do. do. buff „ „ ..	1	6
Do. do. green „ „ ..	2	3
Do. do. blue „ „ ..	3	3

Plasterer (*continued*)—

	s.	d.
Imitation of Sienna, giallo antico, porphyry verd antique or jasper, per foot super.	4	0
Plain polished moulding, white, per foot super. ..	2	8
Do. do. in colours „ ..	3	9
Do.. do. imitation of marble, per ft. sup.	5	9

Portland Cement

Plain face on brick jointed, per yard	2	3
Do. as dado	2	6
If on lath add	0	6
Do. to facias, pilasters, &c., per foot sup. ..	0	5
Weathering .. .. .. „	0	4
Plain moulding .. .. „	1	3
Arris edge .. .. .. „ run	0	1½
Rustic grooves V shaped .. „	0	3
Do. square sunk „	0	4
Do. moulded .. „	0	6
4½in. Reveal margin, &c., and arris, per foot run .	0	4½

PLUMBER

Lead and laying	22 6	per cwt
½ in. Lead service pipe	0 5	per ft.
¾ in. Do.	0 8	„
1 in. Do.	0 10	„
1¼ in. Do.	1 1	„
1½ in. Do.	1 4	„
4 in. Pipe 7 lbs. lead	2 1	„
4 in. Lead bell traps	3 0	each
¾ in. Screw ferrule	3 0	„
¾ in. Boiler screw	1 9	„
¾ in. Screws, with nuts and unions . ..	4 0	„
¾ in. Brass flap valves	1 3	„
2 in. Brass cap and screw	2 6	„
6½ in. Copper water ball for 1 in. cock ..	3 4	„
¾ in. Chandler's ball valve, with copper ball .	6	„
¾ in. Bib cock screw boss	8 0	„
1 in Ball cock and copper ball	10 0	„
1 in Stop cock	8 6	„

Copper baths, from £12 to £14.
Zinc baths, from £4 10s.
Fittings, from £2 10s. to £5
Iron baths, from £2 7s. to £6.
Porcelain baths, from £6 to £10.
Jack Pumps, from £1 2s. to £7
Well Pumps, from £3 to £30
W C apparatus, from 5s. up to £6 6s
D Trap, from 13s 6d. to £1 10s. Smaller, from 18s.
1½ S Trap, from 3s. 6d. to 4s. 9d and 5s. 6d.
1½ P Trap, from 2s. 3d. to 3s 6d., and 5s. 6d.
Jennings' iron sinks, from £2 to £4.
Slop sinks, £4 4s. and upwards
W. C. Ranges £2 12s. and upwards.
Latrines, £3 10s.
Moule's earth closets, from £1 6s. to £8 15s.
Urinal apparatus, from 6s 6d. to £48.
Water waste preventers, 9s. 9d. and upwards.
Lavatory apparatus, 12s. 6d. to £4.
Wash basins, from 1s. to 15s.
Brass urn cocks, 5s. 6d.

1 in Composition speaking tube	0 4	per foot.
1 in Zinc speaking tube	0 5	„
1 in. Copper speaking tube	1 4	„

Mouth pieces, 2s. 6d. to 9s. 6d.

PAINTER.

Two oils	0 5	per yard
Four oils	0 10	„
Skylights (four oils)	0 9	„
Skirting plinth, &c.	0 3½	per ft. run
R. W. pipes	0 2	„
Frames	1 6	each
Large frames	2 3	„
Squares	3 0	per dozen
Large squares	6 0	„
Twice varnishing with copal	0 9	per yard
French polishing	0 6	per ft sup.
Grain wainscot	0 1	per foot
Frames	1 9	each
Squares	1 2	„
Gilding in double gold	5 0	per ft sup.

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PAPERHANGER

	s.	d	
Preparing walls	0	4	per piece
Lining paper	0	9	"
Hanging paper	0	7	"
Common bed-room paper	1	0	"

Marble paper, from 1s. to 10s. per piece
Satins, from 3s. to 9s. per piece
Crimson flock, from 8s. to 12s. per piece
Hanging paper, from 8d. to 1s. 3d. per piece

GLAZIER.

Crown glass, 4½d. to 9d. per foot
Do, extra thick, 5½d. to 2s. per foot
15 oz. sheet, 3d. to 1s. 1d. per foot
21 oz. sheet, 4½d. to 2s. 6d. per foot
26 oz. sheet, 6d. to 2s. 6d. per foot
32 oz. sheet, 9d. to 3s. per foot
36 oz. sheet, 11d. to 3s 8d. per foot
42 oz sheet, 1s. 3d to 4s per foot

Patent Plate Glass.

Best, from 1s. 9d. to 5s. per foot super.
Thirds, from 1s. 1d. to 3s. 6d. per foot super
Extra white do.—Best, from 2s. 9d. to 5s. 5d.; thirds, from 2s. 7d. to 3s. 6d. per foot super
Patent rolled rough plate, from 4d. to 1s. 2d. per foot super.
Patent diamond and quarry rolled plate, from 7½d. to 2s. 1d. per foot super.
Sheet glass tiles, from 6d. to 1s. 8d. per foot super.
Rough plate tiles, from 6d. to 2s. 8d per foot super.
Domes, from 4s. 4d. to £20.
Polished plate glass, from 1s. 6d. to 5s. per foot super.
Bending glass, from 1s. 2d. to 3s. per foot super
Bevilling, from 7d. to 2s. 8d per foot run
Extra thick polished plate, from 4s. 2d. to 12s. per foot super.
Rough cast plate glass, from 8d. to 4s. 6d. per foot super.
Chequered polished plate glass, from 2s. 4d. to 4s. 6d. per foot super.
Stained glass, from 1s. 8d. to 2s. 5d per foot super.
Coloured glass, from 6d. to 3s. 6d. per foot super.
Lead lights, from 1s. 3d. to 3s. per foot super.
Rendle's patent glazing, from 9d. per foot super.
Helliwell's, do., from 6d. per foot super.

NOTES, ADDITIONAL PRICES, AND QUOTATIONS.

(*Continued on page 445.*)

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SECTION No. 2.—SCHEDULE FOR DWELLING HOUSE.

EXCAVATOR.

	s.	d.	
Dig and cart (according to distance) 2 6 to	4	0	per yd. cube
Do. Part return, fill and ram ..	1	6	"
Dry rubbish filled in and well rammed ..	1	0	"
Lime concrete as described in foundations	8	0	"
Do. 4 in. thick, levelled for paving ..	1	0	per yd. sup.
Do. 6 in. thick, levelled and finished with a smooth surface (as floor) ..	1	11	"

Drains.

4 in. Glazed stoneware socketted drain pipes, laid to a proper fall, jointed in well tempered clay, including digging trench for same, average 3 ft. deep, and filling in earth and ramming ..	0	8	per ft. run
6 in. Do. all as do.	0	10	"
4 in. Do. and deep digging or tunnelling in road (provision) .. .. 1 6 to	2	0	"
6 in. Do. all as do. .. .. 2 0 to	2	6	"
Extra to 4 in. Bends	1	0	each
Do. 6 in. "	1	3	
Do. 4 in Junctions	1	4	"
Do. 6 in. "	1	8	"
4 in. Syphon traps and fixing	3	3	"

BRICKLAYER.

Reduced brickwork in mortar, including all rough cutting £13	0	0	per rod sup.
Extra only on do. for being built in cement	0	2	per ft. sup.
Half-brick nogged partition in mortar, including timbers 2 ft. 3 in. apart ..	4	0	per yd. sup.
Half-brick trimmer arch in cement and centring	0	5	per ft. sup.
Extra for rough relieving arches over lintels in cement	0	2	"
Do. for neatly axed flat arch	0	9	"
Pitch and sand damp course ½ in. thick, and laying in walls hot..	0	4	"
Extra for fair face to brickwork and twice limewhite	0	2½	"
Hearths of floated surface of cement 1 in. thick on and including concrete bed ..	6	0	per yd. sup.
Rake, wedge, and point flashings in cement	0	1	per ft. run
Do. do. stepped do. 0 1½ to	0	2	"
Cutting and pinning 2½ in. stone landing in cement	0	3	"
Leave or cut chase in wall for pipes.. ..	0	2	"
Ends timbers cut and pinned in cement (depends on size) .. .. 0 4½ to	0	9	"
Ends stone steps, &c. do. and do. 0 4½ to	0	9	"
Frames, bed and point	1	0	each
Three light	1	6	"
Cast iron air-bricks, 9 in. × 6 in., and setting in walls and forming proper channels for same	1	0	"
Labour and materials, fire bricks, &c., setting grates to 2 ft. 3 in openings, averaged ..	5	6	"
Do. do. Kitchen range to 3 ft. 6 in. openings	15	0	"
Flues, parge and core	1	6	"
Extra for rough arches over fire place openings	0	6	"
Terra cotta chimney pots, 2 ft. 6 in. high, set and flaunched with plain tiles and cement	4	6	"
Chimney backs, render in cement .. .	1	6	"
20 Gallon Copper boiler, and setting in brickwork and fire bricks where exposed to heat. The outside to be rendered with cement and strong canvas, wrought iron door and frame, and strong furnace bars and damper complete £3	0	0	"

Best Pressed Red Bricks.

Extra to facings, finished with a neat struck joint	0	2½	per ft. sup.
Extra for relieving arch in do. in two half-brick rings and pointing to match ..	0	6	"

Bricklayer (*continued*)—

	s.	d.	
Extra for cut and rubbed, and gauge segmental arch in do. and do...	1	4	per ft. sup
Labour to fair cutting in facings	0	1½	
Do. do. circular do.	0	2	
Extra labour to oversailing one course ..	0	2	per ft. run
Do. do. three do. ..	0	5	"
Mitres to one	0	2	
Mitres to three	0	6	
Extra to chamfered plinth capping in cement	0	2¾	"
Mitres	0	2	
Stopped ends	0	4	
Labour and materials, to moulded course, one course high in cement	0	3	"
Mitres	0	4½	each
Labour and materials label circular, one course high in cement	0	6	per ft. run

MASON.

(*The stone to be free from all defects, and set on its natural quarry bed, and the price to include for all cramps, &c.*)

Hard York Stone and Fixing

2½ in. Rubbed landing scantling one way ..	1	7	per ft. sup.
Labour, rebated joint for 2 in. riser	0	2	per ft. run
Do. sunk rubbed edge to 2½ in.	0	2½	"
9 × 4 Tooled, sunk, weathered, throated, and grooved sil.	1	6	"
12 × 4 Rubbed, sunk, weathered, and throated do.	2	0	"
Fair jointed ends to sills	0	3	each
10 × 3½ in. Tooled and back jointed step ..	1	2	per ft. run
13 × 2½ in Rubbed step	1	4	"
13 × 7 in. Do. do. solid	3	6	"
17 × 3 in. Rubbed and back jointed step ..	2	0	"
Fair jointed ends to steps	0	2½	each
Fair ends to do.	0	6	"
4 × 2 in. Rubbed riser	0	7½	per ft. run
Rubbed ends	0	2	each
Small corbels	0	9	"
3 in. Tooled templates 12 × 9 in.	1	3	"
Do. 12 × 12 in.	1	0	"
Fixing chimney pieces, with all necessary iron cramps, &c., to 2 ft. 6 in. openings averaged	3	6	"

TILER.

Best Brosely tiles, laid with a 2½ inch lap, bedded in mortar, on, and including 2½ × 1 in deal battening for same ..	45	0	per sq. sup.
Do. (Tiling only) for cutting	0	2	per foot
Extra for double course of tiles at eaves in cement	0	2	per ft. run
Ornamental tile ridge, and setting in mortar and jointing in cement	1	2	"
Hip tiles made to proper pitch of roof and fixing	1	4	"
Valley do. do. do.	1	6	"
Cement fillet	0	2	"
Ornamental tile finals, p.c. 7s. 6d. each and fixing	8	6	each
Wrought iron ornamental hip hooks and fixing..	1	6	"

CARPENTER, JOINER, AND IRONMONGER

(*The prices include screws and fixing in the best manner.*)

Centring to segmental soffit	0	4	per ft. sup.
Turning piece 4½ soffit	0	2	per ft. run
Fir in plates and lintels	1	10	per ft. cube
Fir framed	2	3	"
Do. and bolted together	2	2	"
Do. and do. and blocked out	2	2	"
Do. Wrought and framed..	4	0	"
Planing on fir	0	0¾	per ft. sup.
1 inch Deal lier board	0	4	"
1 inch do. Gutter board and bearers ..	0	5½	"
1½ inch Deal rough and framed ridge ..	0	3½	"

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Carpenter, Joiner, and Ironmonger (*continued*)—

	s.	d	
Plugging walls	0	1½	per ft run
Fillet spiked on	0	1½	"
Circular do.	0	1½	"
Tilting fillet	0	1½	"
Feather-edged springer	0	1½	"
1 Narrow gutter board and bearers	0	3	"
2 × 2 Herringbone strutting to 9 inch joists	0	3	"
Bracketting to 2 ft. 6 in. girt	0	7½	"
Angle brackets to do.	1	0	each
Wrought and cut ends to rafters	0	2	"
Allow for trimming joists, &c., for trap doors 2 ft. square	1	6	"
Deal rebated drips	0	4	"
Deal fixing slips and building in	1	0	per doz
Fir wrought and framed carved braces out of 6 ft. × 4 ft. and 2 ft. 6 in. long grooved both edges	3	0	each
3 in. Deal wrought framed and cut brackets 1 ft. 6 in. high and 1 ft. 6 in. projection built into wall	3	6	"
1 in. White deal batten flooring laid straight, joint with splayed headings and mitred borders to hearths	17	6	per square
1 in. Red do., do., do., and do.	17	6	"
Raking, cutting and waste on do.	0	0¾	
1 in. Square deal skirting 6 in. high, and grounds and backings plugged to wall and all mitres, &c.	0	3½	per ft. run
1 in. Deal moulded skirting, 12 in. high, and grounds and backings part plugged to wall	0	7	"
Mitres to do.	0	4	
1¼ in. Moulded and doubled faced skirting, &c., &c., all as last	0	10½	"
Do. circular	1	6	"
Mitres	0	6	

Windows in Deal.

1¼ in Moulded casement, hung on butts prepared with beads to receive wire gauge	0	6	per ft sup.
2 in. Moulded fixed fanlight	0	7	"
2 in. Do. do. sash with beads for glass	0	8	"
Deal cased frames, oak sunk, and weathered sills, and 2 in. moulded sashes, double hung with brass axle pulleys, best patent white cord and iron weights, the top sash with moulded horns	1	2	"
Do., but the sashes fixed	1	0	"
Do. all as first, but Venetian 3 light, the centre double hung and the side-lights fixed	1	4	"

Doors in Deal.

1 in. Proper ledged	0	6	"
1½ in. Four panel moulded both sides	0	9	"
2 in. Four panel square	0	9	"
2 in. Do., moulded and square	0	10	"
2 in. Do., or two panel moulded both sides	0	11	"
2 in. Three panel, bead, butt and square, the upper panel with sash bars prepared for glass	1	0	"
2 in. Three panel moulded both sides door, the upper panel open and prepared for glazing with beads	1	1	"

Framings in Deal.

1¼ in. Moulded and square	0	8	"
1½ in. Do., do.	0	9	"
1½ in Moulded both sides	0	10	"
2 in. Do., do	1	0	"

Linings in Deal. (*Including backings*)

¾ in. Wrought one side	0	5	"
Do. tongued and beaded	0	7	"
Do., do., and on splay	0	7½	"
Do., do. soffite, with splayed ends	0	7	"
in. Plain jambinings	0	5½	"
in. Do., and cross tongued	0	6	"
in Wrought, framed, and dovetailed curb	0	9	"

Carpenter, Joiner, and Ironmonger (*continued*)—

Finishings and Fittings in Deal.

	s.	d.	
1 in. Wrought one side, and V jointed batten boardings	25	0	per sq. sup.
1 in Do. cross-tongued, tongued, and rounded window board and bearers	0	6	per ft. sup
Notched and returned ends	0	2½	each
1 in. Proper ledged cover and bearers to dust bin, with flap in same, and water fillets	0	10	per ft. sup.
1 in. Mitre clamped flap, and framed and beaded frame	0	8	"
1 in. Wrought both sides, and cross tongued shelves and bearers	0	[illegible]	"
1 in. Do., do., do. on strong brackets	0	7½	"
1 in. Do. framed and cross-tongued, and bearers	0	7	"
1¼ in. Wrought and cross-tongued W.C seat and riser on, and including fir dovetailed bearers (the seat to be so constructed that it may be easily removed)	0	8	"
1½ in. Wrought both sides, framed and cross-tongued	0	8	"
1½ in. Moulded and square cupboard front and door	0	9	"
1½ in. Moulded and square cupboard front and folding doors	0	10	"

Labours in Deal.

Rebate	0	0¾	
Raking, cutting ¾ in. and 1 in.	0	0½	
Circular cutting and scribing ¾ in.	0	1½	
Rounded edge on 1 in.	0	1	
Scribing 1¼ in. and 1½ in	0	1½	
Tongued and mitred angle 1¼ in.	0	4	per ft. run
Do. and beaded do 1½ in	0	4	"

Labour and Materials in Deal.

Raking, cutting, and waste on 1 in.	0	0¾	
Rounded window nosing	0	2½	"
Mitres	0	1½	
Returned ends	0	2½	
½ in. Beaded capping	0	1	
2 in. × ⅞ in. Door stop	0	0½	"
3 in. × ½ in. do.	0	1	"
4 in. × ½ in. square skirtings and grounds &c., plugged	0	2	"
Mitres	0	1½	
Corners	0	2	
3 in. × ¾ in. Wrought, framed and splayed grounds	0	1½	"
4 in. × ¾ in. Wrought window lining	0	2½	"
Double rebated and moulded sash bar	0	1	
1 in. Deal rounded and tongued window nosing	0	3½	"
Returned rounded ends	0	2½	"
⅞ in. × 4½ in. Beaded peg rail and plugging	0	4	"
Moulded weather-board fixed to doors	0	4½	"
1 in. Beaded pipe casing, fixed with screws to and including grounds plugged to wall	0	8	"
1½ in. × 1½ in. Wrought and beaded, hanging style	0	2½	"
3 in. × 2 in. Fir wrought, and framed legs and bearers	0	3	"
15 in × 2 in. Wrought, framed and chamfered barge board	1	0	"
Mitred returned chamfered ends	1	0	each
⅞ in. × ¾ in. Moulded fillet	0	1	per ft. run
Mitres	0	1	
Moulding under window board	0	1½	"
Mitres	0	1	
Returned mitred ends	0	2	each
2½ in Moulded arch, trave and mitres	0	2¾	per ft. run
4 in Do. do.	0	5½	"
Do. (as first), birds mouthed at back	0	3½	"
Mitres to 3 in. × 1½ in.	0	1	each
Moulding 4 in. wide as cornice	0	4½	per ft. run
Mitres	0	2	each
Moulding out of 3 in × 2 in. planted on	0	4	per ft. run

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Carpenter, Joiner, and Ironmonger (*continued*)—

	s.	d.	
Mitres	0	1½	per ft. run
Mitred returned ends	0	8	
Splayed ends	0	1½	
Moulding out of 4 in. × 2 in. planted on	0	5	"
Mitres	0	2	
Mitred returned ends	0	4½	
Splayed ends	0	1½	
Moulding out of 4½ in. × 3 in., planted on	0	6	"
Mitres	0	2	
Splayed ends	0	1½	
Do. out of 7 in. × 3 in., planted on	0	10½	"
Mitres	0	4½	
Splayed ends	0	3	
4½ in. × 3 in. Fir, wrought, framed, rebated, and beaded frame	0	5½	"
4 in. × 3 in. Fir, wrought, framed, rebated, and moulded frame	0	6	"
4½ in. × 3 in. Do. do. do.	0	6½	"
4½ in. × 3 in. Fir, wrought, framed, double rebated and double-beaded transom, &c.	0	9	"
4 in. × 3 in. Do. do. double moulded	0	11	"
6 in. × 4 in. Fir, wrought, and framed bearer	0	7½	"
6 in. × 4 in. Fir, wrought, framed, and grooved studding	0	8	"
Do. do., twice grooved	0	8½	"
Seat hole cut and dished	1	0	
Deal Dresser, 7 ft. long and 7 ft. high, with wrought, framed, and cut standards top, with moulded architrave, mitred round as cornice, three tiers of plate shelves with groove, and bead nailed on, with large and small brass hooks fixed on edge of shelves, 1½ in. deal wrought and cross-tongued top to lower part with rounded corner on proper framed legs and bearers, three proper dovetailed drawers and black knob handles, 1½ in. deal wrought cross-tongued, potboard and bearers. Fix in kitchen where directed	£4	10	0
Beaded strips, 3 in. × 1 in. and 10 ft. long plugged to wall for dish cover	2	0	each
¾ in. Beaded bell board, 11 in. wide, plugged to wall	1	6	"
1½ in. Deal copper lid in two thicknesses, properly pegged and with flush handle	3	6	"
Small sliding door, with runner, plugged to wall of dust bin	3	0	"
4½ in. × 3 in. Oak, wrought, framed, sunk and weathered sill	0	11	per ft. run
9 in. × 3 in. Oak, wrought and double chamfered curb set on brickwork	1	3	"

Honduras Mahogany and French Polishing.

1 in. Morticed clamped flap, and framed and beaded frame	2	0	per ft. sup.
1½ in Wrought, framed, and cross-tongued W.C. seat, and riser on, including strong fir dovetailed bearers, the seat to be specially constructed according to drawings to be supplied	2	3	"
1½ in. Wrought and framed bath top	1	10	"
Labour rounded edge 1½ in.	0	2	per ft. run
Moulding tongued on	0	4½	"
½ in. × 4 in. Beaded skirting, plugged to walls and grounds, &c.	0	8	"
Mitres	0	3	
Returned beaded ends	0	4	
½ in × 6 in. Beaded skirting, with grounds &c., plugged to walls	0	10	
Mitres	0	3	
Returned beaded ends	0	4½	
Seat hole cut and dished	1	0	each
Handle hole cut and beaded	1	0	"
Hole through flap for handle so that it may be used when the flap is down	1	0	"

Carpenter, Joiner, and Ironmonger (*continued*)—

Attend Plumber to

	s.	d.	
W. C.'s.	2	6	each
Bath	3	0	"
Lavatory	2	0	"

Stairs in Hard Yellow Deal.

1 in. Wrought and beaded lining	0	6	per ft. sup
1 in. Wrought and cross-tongued landing in batten widths and bearers	0	7	"
1 in. Rounded treads and risers, glued, blocked, and bracketted on, and including strong fir carriages	0	9½	"
1 in. Cross-tongued winders and strong fir carriages	1	0	"
1¼ in. Moulded treads and 1 in risers, all as before	1	0	"
1½ in. Moulded and square spandrel framing, measured nett	1	0	"
Extra for forming and hanging door in do.	4	6	"
1½ in. Moulded nosing	0	3	per ft run
1½ in. Wrought and framed wall string	0	8	"
1½ in. Do. do. and moulded, wrought to match skirting, 15 in. high	1	0	"
2 in. Wrought and framed outer string, moulded capping to outer string, out of 3½ in. × 2½ in.	0	7½	"
Turned and framed deal, balusters out of 2 in. × 2 in.	0	2½	"
4 in. × 4 in. Turned deal newel, and size and varnish	1	0	"
Ball terminals to do. do.	1	0	each
Do. pendants do. do.	0	6	"
5 in. × 5 in. Newel, all as before	1	1	per ft run
Terminal to Do.	1	0	
Mahogany moulded handrail out of 4 in. × 3½ in. and French polishing	2	6	"
Notching ends winders	0	2	
Ends riser housed to string	0	1½	
Do. tread and riser do.	0	4	
Do. winder and do. do.	0	6	
Circular ends to moulded tread and riser built up	3	0	each

Ironmongery of Best Description and Screws and Fixing.

2 in. Wrought Iron butts	0	11	per pair
3 in. Do. do.	1	2	"
3½ in. Do. do.	1	4	"
4 in. Do. do.	1	6	"
[illegible] in. Brass butts	1	6	"
18 in. Cross garnetts	2	6	"
4 in Iron barrel bolts	0	8	each
5 in Do. do.	1	4	"
12 in Do. do.	[illegible]	[illegible]	"
[illegible] in Brass [illegible]	[illegible]	[illegible]	"
4 in. Iron neck bolts	0	[illegible]	"
Norfolk latches	[illegible]	0	"
Yale night latch	[illegible]	0	"
W.C. latch with private bolt	[illegible]	6	"
Cupboard locks	[illegible]	0	"
Iron rim locks and brass furniture 3 to [illegible]	[illegible]	[illegible]	"
7 in. Dead lock	[illegible]	[illegible]	"
7 in. Mortice lock	7	6	"
10 in. Drawback lock, with ebony furniture	12	6	"
Sets finger plates, p. c. 18s. 6d per set	3	0	
Do. do. p. c. 10s. do.	11	0	
Sets lock furniture, p. c. 3s. 6d. per set	4	0	
Do. do. p. c. 5s. do.	[illegible]	6	
Brass door chain, 10 in.	7	6	
External octagon bronze door knob	5	6	
Knocker, p. c. 7s. 6d	8	0	
China knob	1	6	
Brass do.	1	6	
Do. Turnbuckle fastenings	0	9	
Hopkinson's sash do. p. c. 1s.	1	9	
Do. do. p.c. 1s. 6d.	2	3	

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Carpenter, Joiner and Ironmonger (*continued*)—

	s	d	
Patent self fastening window lifts	1	3	each
Brass pull down handles to sashes	1	6	
Dress pegs with china knobs	0	8	
Galvanised meat hooks..	1	6	per doz.

Sundries.

Galvanised iron tongue and groove in oak ..	0	1½	per ft. run
Zinc wire gauge and fixing in casement ..	0	6	per ft. sup.
Iron dowels in mortices in stone and fir ..	0	6	each

FOUNDER AND SMITH.

Cast Iron and Fixing.

4 in. Ogee moulded eaves gutter, and proper brackets and red lead joints	0	6	per ft. run
Stopped ends	0	5	each
Mitres	1	3	,,
Obtuse do...	1	6	,,
Outlets	1	6	,,
4 in. Diameter rain-water pipe, and bands and red lead joints, and securely nailing	0	9	per ft. run
Extra for swanneck bends, about	2	6	,,
2 in. Galvanized iron pipe and fixing ..	0	9	,,
Extra for swanneck bends	2	0	,,

Wrought Iron and Fixing.

Chimney bars	20	0	per cwt.
Bolts	28	0	,,
Straps, and fixing with bolts to wall plates	30	0	,,
Straps and bolts	30	0	,,

PLASTERER.

Render, float and set walls	0	10	per yd. sup.
Lath, plaster, float and set (single laths) partitions	1	4½	,,
Lath and counter lath	0	11	,,
Render, float and finish, with Keene's cement on walls	2	3	,,
Lath, plaster, finished rough stucco in Portland cement..	1	8	,,
All as do. in panels measured all over ..	2	6	,,
Lath, plaster, float, set, and twice whiten ceilings	1	5	,,
Labour quirk in plaster..	0	0½	per yd. run
Mitres to 2 ft. 6 in. girt	1	6	each
Stopped ends do...	1	0	,,
Plaster moulded cornice 9 in. girt, and twice whiten	0	7	per yd. run
Do. circular	1	0	,,
Mitres	0	8	each
Plaster moulded cornice 20 in. girt, and one 3 in. enrichment, and twice whiten ..	1	10½	per yd. run
Do. circular	2	6	
Mitres	1	8	each
Mitred returned stopped ends . ..	2	0	,,
Cornice as last, but with two enrichments .	2	3	per yd. run
Mitres . .	1	0	each
Portland cement square skirting 4 in. high..	0	3	per ft. run
Mitres	0	2½	each
Portland cement flush beaded do. 1½ in high.	0	6	per ft. run
Mitres	0	6	each
Keene's cement angle and arris .. .	0	2½	per ft. run
Do. rounded angle	0	4	,,
Encaustic tile paving, p. c. 10s. 6d. per yard sup., laid, bedded, and jointed in cement	12	0	per yd. sup.

PLUMBER.

(The Prices include Wall Hooks, &c.)

Milled lead and labour on roofs	2	0	per cwt.
Extra to forming secret gutter at side of chimneys	0	6	per ft. run
Open copper nailing	0	1½	,,
Close do.	0	3	,,
Extra to drips in gutter..	1	0	
¾ in. Brass ferrule and fixing	12	0	

Plumber (*continued*)—

	s.		
½ in. Strong lead service pipe and fixing, with all necessary hooks, bends, joints, &c. ..	0	4	per ft. run
¾ in. do., all as do., and weighing 32 lbs. per yd.	0	8	,,
¾ in. Do. as provision, including digging trench, and laying and filling in.. ..	1	6	,,
1¼ in. Strong lead service pipe and hooks, bends, joints, &c., and fixing	1	4	,,
1½ in. Lead waste pipe and do., do.	1	0	,,
½ in. Wrought iron galvanized pipes and joints, elbow bends, &c., and fixing complete	0	6	,,
¾ in. Do. do. do. do.	0	9	,,
1¼ in. Do. do. do. do. .. .	1	2	,,
4 in. Cast iron soil pipe with red lead joints, and made air tight and fixing	1	0	,,
End do. made good to drain	1	0	
Junction in do.	3	6	
3 in. Zinc ventilating pipe and fixing, including all joints	0	4½	,,
End made good to soil pipe	0	6	
Solder joint to ½ in. pipe extra	0	8	each
Do. ¾ in. do. do.	1	2	,,
Piece 1¼ lead waste pipe about 5 ft. long and fixing..	5	6	
Do. 1½ in. lead waste pipe about 5 ft. long with one end soldered to sink .. .	7	6	
Do. do. do. about 6 ft. long, with one end soldered to lavatory ..	8	6	
Piece 4 in. soldered soil pipe out of 7 lbs. lead about 5 ft. long, including all bends and joints to connect W. C. apparatus to cast iron soil pipe £1		0	
Piece ¾ in. wrought iron pipe about 8 ft. long, jointed each end to connect cistern ..	5	0	
¾ in. Brass fly nuts and unions, screwed for iron and fixing	5	0	
1¼ in. Do. do. do. do. and do. ..	6	0	
¾ in. Brass screw-down bib cocks, with joints and fixing	6	9	
¾ in. Do. high pressure stop cocks, with key and do. and do.	7	9	
¾ in. Do. do. ball valve and copper ball and do do.	7	6	
½ in. Brass hot water lever handle tap screwed for iron and fixing	7	0	
Stidder's patent lavatory top, with basin fitted with plugs, washer chain and taps, p. c. £3 and fixing £3	10	0	
Stidder's patent Siamese trapless closet, and fixing complete £4	10	0	
Cottage pan W. C. apparatus, p. c. 6s., and fixing in brickwork and making good to drain	10	6	
Water waste preventer, p. c. 25s., and allow for profit, carriage and fixing .. £1	10	0	
Do., but with brass chain and ring handle ..			
Galvanized wrought iron cistern to contain 200 gallons, and fixing on and including proper bearers £3	15	0	
Do. do. do. hot water do., to contain 70 gallons, and do. do. .. £3	10	0	
Holes drilled in cisterns	0	6	
Bath with valves labelled H., C., & W., and fixings (p. c., £6) £7	0	0	
No. 16 gauge zinc safe	0	8	per ft. sup.
Bossed angles	0	4	
2½ in. brass grating and soldering ..	1	0	
Piece 1½ in. lead waste pipe about 2 ft. long, soldered both ends..	0	6	

GLAZIER

(The glass to be of the best description, free from specks, bubbles, winding, &c., and well puttied and back puttied.)

Best 21 oz. flatted sheet glass, and glazing in ordinary squares	0	5	per ft. sup.
Best British polished plate glass, and glazing in squares not exceeding 12 ft. super ..	2	4	,,
Lead quarry glazing, p. c. 2s. per foot ..	2	3	,,

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Painter (continued)—

	s.	d.	
Dozen sash squares	2	6	per dozen
Dozen house squares	3	0	,,
Casement	1	0	each
Fanlight	0	9	,,
Large sash light	10	0	,,
Dresser	7	6	,,
Brackets	1	0	,,
Chimney pieces	3	6	,,
,, special design	4	0	,,
Four oils, parti-colours	1	2	per yd. super.
Frames	2	4	each
Squares	2	11	per dozen
Large do.	3	6	,,
Chimney pieces, special design	5	0	each
Four oils and varnish	1	4	per yd. super.
Skirting and string	0	2½	per ft. run
Shelf edge	0	1½	,,

Painter (continued)—

	s.	d.	
Bar	0	1½	per ft. run
Frames	2	8	each
Large do.	3	4	,,
Sash squares	3	4	per dozen
Large do.	4	0	,,
Fanlights	1	0	each
Four and stippled varnish on reveal ..	1	3	per ft. run
Four parti-colours and varnish	1	6	per ft. super.
Shelf edge	0	1½	per ft. run
Skirting	0	3	,,
Fanlight	1	1	each
Chimney piece and over mantel, special design	7	6	,,
Clearcole and white ceilings	0	2	per yd. super.
Do. to cornice	0	0½	per ft. run
Do. to centre flowers	1	0	each
Distempering..	0	3	per yd. super.

SECTION No. 3.—SCHEDULE FOR A CHURCH.

EXCAVATOR AND BRICKLAYER.

The concrete to be composed of six parts of good gravel and one of the best English Portland Cement.

The bricks to be the best hard square well burnt stock bricks, samples to be approved.

The mortar to be composed of clean sharp sand and best stone lime, in the proportion of three of sand to one of lime.

	s.	d.	
Dig earth from surface and deposit on site where directed	1	0	per yd. cube
Do. and do. from basement not exceeding 6 ft. deep	0	10	,,
Do. and do. from do. below do. .. .	1	1	,,
Do and do. from trenches	1	0	,,
Do. and do. from do. below basement .	1	3	,,
Do. and do. from do. a part return, fill in and ram	1	6	,,
Cement concrete as described in foundations	1	6	,,
Do. 6 in. thick under pavings	2	6	,,
Do. 6 in. thick floated with cement as paving. If done in one operation	3	0	,,
Do. 9 in. thick, filled in between rolled iron joists	3	9	,,

(Bricks assumed to cost 35s. per Thousand delivered.)

	s.	d.	
Reduced stock brickwork in mortar, including rough cutting £12	10	0	per rod
Half brick wall in cement	0	7	per ft. sup.
Do. trimmer arch do.	0	6	,,
Fair cut weathering in stocks	0	2½	,,
Do. on internal brick facings to splayed jambs to form squint quoins, and extra value of bricks . . .	0	4	,,
Extra picking stock facings and pointing, with a neat struck joint as the work proceeds	0	1	,,
Extra to facing with white bricks, from Dunton Green, of uniform colour, laid Flemish bond, and furnished with a neat struck joint, the colour of the mortar, to be approved by the Architect .	0	2½	,,
Extra do. circular to reveals	0	6	,,
Do. to neatly axed segmental arches, in stocks and pointing	0	5	,,
Do to do. Gothic pointed in half brick rings	1	0	,,

	s.	d.	
Extra to flat pointed roughly axed arch in openings with splayed reveals	0	8	per ft. sup.
Do. to circular arches	0	10	,,
Do. to do. but with splayed reveals	1	0	,,
Do. to cut and rubbed Gothic pointed gauged arch, in white bricks and pointing ..	1	6	,,
Do. to circular do.	2	0	,,
Do. to Gothic pointed do. but in splayed reveals	1	9	,,
Do. to cut and rubbed Gothic arches, in white moulded bricks set in cement .	2	0	,,
Damp course ½ in. thick of pitch and tar, a small filet of Portland cement to be laid next face of wall	0	3½	,,
Portland cement rendering	2	3	per yd. sup.
Do. weathering	0	4	per ft. sup.
Extra to fair face of brickwork and twice lime white	0	2½	per yd. sup
6 in. Red and buff Staffordshire tiles, bedded and pointed in cement, including Portland cement ground	6	6	,,
Encaustic tile paving, p. c. 10s. per yard superficial, and laying, including cement ground	15	0	,,
Encaustic tile lining to wall, p. c. 10s. per yard super, and allow for carriage, profit, and fixing	16	6	,,
Cutting and waste on do.	0	4	per ft. run
Do. to fit base of columns	0	6	,,
Circular cutting and waste to fit mouldings	0	9	,,
Raking, cutting, and waste, and forming mitre jointed angle to do.. .. .	1	0	,,
Fair cutting in facings	0	1½	,,
Do. circular over arches, &c.	0	2½	,,
Do. do. to fit splayed reveals	0	3	,,
Fair cut chamfer 9 in. wide to jambs .	0	6	,,
No. 4 stops	0	6	,,
No. 4 moulded stops	1	6	,,
Extra to rough arch over lintel	0	3	,,
Do. do. over chimney bar	0	3	,,
Do. do. Gothic arch in half brick wall in cement	0	4	,,
Do. to 1½ in. diameter staff beaded angle in white facing..	0	5	,,

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Excavator and Bricklayer (*continued*)—

	s.	d.	
Extra to 1½ in. diameter staff-beaded angle in white facing, circular	0	7½	per ft run
Apex mitres	0	7½	per numb.
Stopped ends	0	6	,,
Extra to forming band in white facings 3 in. circular over arches	0	3	per ft. run
Apex mitres	0	4	per numb.
Extra to chamfered brick in internal facings to sill..	0	4	per ft. run
Stopped ends	0	4	per numb.
Splayed stock brick on edge sill in cement ..	0	3½	per ft. run
Ends stone steps, cut and pinned	1	0	each
Stone treads and risers do.	1	0	,,
Frames bedded and pointed in lime and hair mortar, the reveals screeded, say containing 20 ft.	5	0	,,
Flues cored and pargetted	1	6	,,
Terra Cotta finial, 25s. p. c., and allow for carriage, profit, and fixing	30	0	,,

WALLER.

Kentish rag wall 12 in. thick, finished fair, both sides	1	0	per ft. sup.
Extra to facings in Kentish rag random rubble, with one bonder to every yard super, all good sound stones, with neat cement joint..	0	9	per yd. sup.
Extra on facings to Gothic pointed face arches and pointing	1	0	per ft. sup.
Extra on do. to semi-circular do. and do. ..	[illegible]	3	,,
Labour fair cutting in facings circular over arches	0	4	per ft. run
Do. do. but raking to gables	0	9	,,
Ends treads cut and pinned and made good to in facings..	1	0	per numb.

MASON.

The whole of the stone to be of the best quality Bath Stone, free from all defects, laid on its natural quarry bed, and to include all slate, dowels, and cement in setting.

Bath Stone.

Stone and labour in plain bands, &c., and hoisting and setting	4	6	per ft. cube
Do. and do. in sunk bands and do.	4	9	,,
Do. and do. in quoins worked fair on two faces and do.	4	9½	,,
Do. and do. in do. (and hoisting and setting over 40 ft.)	4	9½	,,
Do. and do. in quoins worked fair three faces and do	4	9	,,
Do. and do. in quoins sunk fair two faces .	5	0	,,
Do. and do. in sunk weathering (and do.) ..	4	11	,,
Do. and do. in chamfered strings, plinth capping, &c., and do.	4	6	,,
Do. and do. in do., but circular and do. ..	5	3	,,
Do. and do. in twice chamfered reveals and do.	4	9	,,
Stone and labour in sunk and chamfered buttress weathering and hoisting and setting	4	9	,,
Do. and do. in twice chamfered arch stones and do.	5	0	,,
Do. and do. in arched stones and chamfered tracery and do.	5	6	,,
Do. and do. in three times chamfered reveals	5	0	,,
Do. and do. in four times chamfered mullions and do	5	3	,,
Do. and do. in sunk and stopped chamfered sill and do.	4	6	,,
Do. and do. in sunk and three times do. sill and do.	5	0	,,
Do. and do. in sunk panel with trefoil head and do.	5	6	,,
Do. and do. in moulded bases and do. ..	5	3	,,
Do. and do. in sunk and moulded do. and do.	5	6	,,
Do. and do. in do. with octagonal plinth worked on and do.	6	0	,,

Mason (*continued*)—

	s.	d.	
Stone and labour in moulded labels over circular windows and do.	5	6	per ft. cube
Do. and do. in sunk and moulded chimney cap (and hoisting and setting over 40 ft.)	5	6	,,
Do. and do. in do. (and hoisting and setting over 50 ft.)	5	9	,,
Do. and do. in sunk and moulded circular band to cluster of columns and do. ..	6	6	,,
Stone and labour in sunk and moulded circular caps to cluster of columns and hoisting and setting	6	0	,,
Do. and do. in sunk circular shafts to cluster columns, &c., and do.	5	6	,,
Do. and do. in sunk and moulded corbel boasted for carving and do.	5	6	,,
Do. and do. in sunk and moulded caps do. and do.	5	6	,,
Do. and do in moulded corbels with portion of two 3 in diameter columns worked on and do. and do.	6	6	,,
Do. and do. in pilasters to drop arch with 3 in. diameter columns worked on angles with crochets between	7	6	,,
Burning in lead flashings to stone	0	4	per ft. run
Groove for lead lights and pointing in with cement	0	4	,,
Circular do. for do. and do.	0	6	,,
Stopped groove in sills and holes for condensation..	0	4	,,
Stopped ends to do.	0	1½	each
9 in. × 6 in. Stone and labour in double splayed coping set in cement, including joints	2	0	per ft. run
Angle	5	0	,,
Fair returned end	0	9	,,
Stone and labour 3 in. diameter turned column shaft	4	6	each
Do. 6 in. do., do..	9	0	,,
Do. 15 in. × 4 in. coping worked fair, chamfered both edges, including joints, cramps, &c.	2	4	per ft. run
Do., do., and hoisting and fixing over 40 ft.	2	6	,,
Stone and labour in apex and finial out of 3 ft. × 1 ft. 3 in. × 3 ft. chamfered and boasted for carving and hoisting (and setting over 40 ft.)	50	0	per number
Do. and do. in do., but 3 ft. × 1 ft. × 3 ft. not worked at back, but built into wall and do.	40	0	,,
Do. and do. bond stones out of 1 ft. 6 in. × 1 ft. 3 in. × 1 ft. 8 in. sunk and chamfered to form a part of coping (and do.)	15	0	,,
Do. and do., but 2 ft. 3 in. × 1 ft. 3 in. × 1 ft. 4 in. (and do.)	17	0	,,
Do. and do., but 2 ft. 6 in. × 1 ft. 3 in. × 1 ft. 2 in. (and do.)	17	0	,,
Do. and do., but 1 ft. 6 in. × 1 ft. × 1 ft. 8 in. built into wall (and do.)	12	0	,,
Do. and do. in bond stones 1 ft. 4 in. × 1 ft 3 in. × 1 ft. 8 in. (and hoisting over 50 ft.)	13	9	,,
Do. and do. in do. 1 ft. 6 in. × 1 ft. 3 in. × 1 ft. 6 in. (and do.)..	15	0	,,
Do. and do. in do. 1 ft. 6 in. × 1 ft. 3 in. × 2 ft. (and do.) . . .	16	6	,,
Stone and labour in kneelers out of 2 ft. 9 in. × 1 ft. 3 in. × 1 ft. 6 in. sunk and chamfered to form a part of coping with returned mitred chamfered end and hoisting, &c...	20	0	,,
Do. and do. in do. 2 ft. 9 in. × 1 ft. 4 in. × 2 ft. 6 in. and do.	35	0	,,
Do. and do. in summer stone 1 ft. 4 in. × 9 in. × 1 ft. 9 in. worked fair on face and one side, and built into wall, and do. ..	10	6	,,
Do. and do. in do. worked fair on face and both sides, and do...	12	0	,,

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Mason (*continued*)

	s.	d.	
Stone and labour in summer stone 1 ft 2 in × 9 ft. × 1 ft. 10 in., and do.	8	6	per number
Do. and do. in corbel 1 ft. 4 in. × 9 in. × 1 ft. moulded on front, worked fair one side, and built into wall, and hoisting ..	8	6	"
Do. and do. in do., but worked fair on both sides	5	6	"

Yorkshire Stone.

	s.	d.	
2 in. Rubbed hearths	1	0	per ft. sup.
2½ in. Tooled paving	1	0	"
4 in. Tooled threshold, slightly chamfered on edge	2	0	"
Back joint on 4 in.	0	2½	per ft. run
Fair tooled edge on 9 in.	0	2½	"
4 in. × 2 in. Tooled riser	0	8	"
12 in. × 2½ in. Tooled treads, slightly chamfered on front edge	1	4	"
18 in. × 4 in. tooled threshold back-jointed and do.	2	4	"
9 in. × 6 in. Tooled solid step, and do. ..	1	10	"
9 in. × 6 in. Do. do., scantling, and do. ..	2	0	"
Fair ends	0	6	per number
12 in. × 6 in. Rubbed do. and do.	2	9	per ft. run
Perforation in 2½ in. for coal plate	2	6	per number
Mortices for iron dowels and cement ..	0	3	"
Tooled templates 12 in. × 12 in. × 4 in. thick, set in cement	1	9	"
12 in. × 6 in. Portland stone solid steps ..	3	6	per ft. run
Do., but back jointed	3	9	"
Ends housed	1	0	each

TILER.

Best Broseley tiling laid in patent manner, each tile nailed with three stout nails ..	37	6	per square
Fair cutting to verge	0	2½	per ft. run
Cement filleting	0	2½	"
Extra to double course tiles at eaves ..	0	3	"
Cooper's red tile ridge	1	3	"
Do., and setting in cement	1	8	"
Purpose made hip tiles..	1	6	"
Valley tiles	1	6	"
Wrought iron hip hooks	2	0	each

CARPENTER

Wood work of roof is to be stained before boiled oil is rubbed in

Centering to concrete floor	15	0	per square
Do. to segmental apertures	0	4½	per ft. sup.
Do. to Gothic pointed do.	0	6	"
Do. to circular do.	0	6	"
Do. to flat pointed do. with splayed reveals	0	4½	"
Do. to circular do. with do.	0	6	"
Do. to trimmers	0	4½	"
Centering to Gothic pointed apertures 4½ in. soffit	0	4½	per ft. run
Do. to circular do. do.	1	0	"
Centres for Gothic pointed arches 4½ in soffit, and 8 ft. 6 in. around	3	0	each
Do. for do. 9 in. soffit, and 5 ft. 6 in. do. ..	4	0	"
Do. for do., do., and 6 ft. 6 in. do.	5	0	"
Do. for do., with moulded soffits, 2 ft. 3 in soffit, 8 ft. wide and 4 ft. 6 in. high ..	20	0	"
Do. for do., but 11 ft. 2 in. wide and 7 ft. 6 in. high	35	0	"
Do. for do 2 ft 8 in soffit, 20 ft 2 in wide, and 21 ft. 9 in. high £7	10	0	"
Fir in lintels, &c.	1	10	per ft. cube
Fir in ground joists, &c.	2	0	"
Fir framed in roofs, &c.	2	3	"
Fir framed in roof trusses	3	6	"
Planing on Fir	0	0¾	per ft. sup.
¾ in. Wrought one side and V jointed boarding	2[illegible]	0	per square
1 in. Do. fascia and backings .. .	0	4½	per ft. sup.
1¼ in. Do., do.	[illegible]	5½	
Do. sawn roof boarding for tiles . .	[illegible]	0	per square

Carpenter (*continued*)

	s.	d.	
1¼ in. wrought one side and V jointed boarding	32	6	per square
1½ in. sawn and framed ridge	0	3½	per ft. sup.
Do. wrought and splayed eaves board ..	0	5	"
Inodorous roofing felt, and laying and allow for laps, &c..	7	6	per square
Labour rough splay 2 in. wide	0	0½	per ft. run
Do. splayed edge on 1½ in.	0	0½	"
Do. scribing 1 in.	0	1½	"
Do. raking, cutting, and waste on ¾ in. V jointed boarding	0	1	"
6 in. × 1½ in. Wrought all round	0	3½	"
Strong herring bone strutting to 9 in. joists	0	4	"
Moulding out of 3 in. × 3 in .. .	0	3½	"
Mitres	0	2	each
Do. on splay	0	4	"
Do. out of 6 in. × 3 in...	0	9	per ft. run
Housings	0	3	each
Do. on splay	0	4½	"
Do. out of 4½ in × 4 in.	0	7½	per ft. run
Housings..	0	2½	each
Do. on splay	0	4	"

JOINER AND IRONMONGER.

4½ in. × 3 in. Fir wrought framed, rebated, and chamfered frame	0	6	per ft. run.
Do. do. but circular to Gothic head, including keyed heading joints	1	0	"
Do. transom to do.	0	10½	"
1¼ in. Yellow batten ploughed and tongued with hoop iron floor, laid with splayed headings	28	6	per square
Do. and bearers	0	5½	per ft. sup.
Notchings in do...	0	2	each
Moulded skirting 9 in high, and grounds and backings plugged to walls..	0	5½	per ft. run
Mitres	0	4	each
Housing	0	2½	"
1 in. Ledged and braced matched and V jointed door	0	7½	per ft. sup.
1½ in. Framed, ledged, and braced door, covered with 1 in. tongued and V jointed boarding, with Gothic head, measured square..	0	10	"
2 in. Framed, ledged, and braced doors covered with ¾ in. matched and V jointed battens, with Gothic pointed heads, measured square	1	0	"
2 in. Swing doors in two panels each leaf, upper panels open for glass including beads	1	0	"
1 in. Wrought, rounded, and cross-tongued window board, tongued to oak and bearers	0	7	"
½ in. Matched and V jointed boarding ..	17	6	per square
1 in. Wrought one side riser	0	4½	per ft. sup.
1 in. Wrought one side, and beaded fascia ..	0	5	"
2½ in. × 1½ in. Deal, double chamfered fillet, mitred as architrave	0	3	per ft. run
Do. circular	0	8	"
Apex mitres	0	1½	each
Intersections of circular with straight ..	0	1½	"
2 in. × 1½ in. Wrought hanging stile ..	0	2	per ft run
2 in. × 1½ in. Wrought, and rounded nosing tongued on	0	4	"
6 in. × ½ in. Do., do	0	4	"
6 in. × 1½ in. Wrought barge board	0	4	"
Splayed ends	0	3	
Wrought and cut ends	0	9	
6 in. × 1½ in. Wrought and rounded both edges, jamb linings and backings.. ..	0	6	
6 in. × 2 in. Do. do.	0	6½	"
6 in. × 2 in. Do., do., do., circular, including keyed heading joints	1	3	"
Ends stubbed to floor	0	4	
Moulding, tongued on under window board..	0	3	"
Returned moulded ends..	0	3	
Do. 3 in. × 3 in. planted on	0	3½	"
Housings	0	2	

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JOINER AND IRONMONGER (*continued*)—

	s.	d.	
Mitres	0	1½	each
Do. 6 in. × 3 in. do.	0	8	per ft. run
Housings	0	3	each
Mitres	0	3	,,
Notched and returned rounded end to 1 in. window boards	0	3	

HONDURAS MAHOGANY AND TEAK FURNITURE POLISHING.

1 in. W.C. seat and riser on, and including strong bearers	1	10	per ft. sup
1 in. Wrought flap and framed and beaded frame..	3	4	,,
Labour rounded nosing on 1 in.	0	1½	per ft. run
½ in. Wrought and chamfered skirting 6 in. high, plugged to walls	0	[illegible]	,,
Tongued angles	0	4½	each
Fair ends	0	[illegible]	,,
Rounded corners	[illegible]	[illegible]	,,
Seat hole cut and dished	2	0	,,
Attend plumber to W.C.	2	6	,,
Extra to seat, and riser screwed to remove easily	2	0	,,

STAIRS—*Deal.*

1½ in. Wrought treads and 1 in. risers, glued, blocked, and bracketted on, and including strong fir carriages..	1	0	per ft. sup.
1½ in. Winders measured net	1	3	,,
1 in. Wrought riser	0	4½	,,
1½ in. Wrought and chamfered wall string plugged to wall	0	7	per ft. run
Do. Ramped	0	10	,,
Tongued angles	0	4½	each
Ends housed	0	4	,,
3½ in. × 3 in. Wrought and rounded handrail	0	8	per ft. run
3½ in × 3½ in. Wrought, framed, and chamfered newel	0	8	,,
Ends, treads and risers housed	[illegible]	[illegible]	each
Do. risers only do.	0	2	,,
Do. winders do.	0	4½	,,
Notchings	0	2[illegible]	,,

SITTINGS—*Deal.*

1 in. Wrought both sides	0	5½	per ft sup.
1½ in. Wrought both sides and cross-tongued seats	0	7	,,
2 in. Bead flush and square seat back, the framing stopped chamfered, the panels filled in with ¾ in. V jointed battens ..	0	11	,,
Labour groove	0	0½	per ft. run
Do. Rounded edge on 1½ in.	0	1	,,
Do. Splayed rebate	0	1½	,,
Do. Working bead and two quirks, 8 in. girt	0	4½	,,
2 in. × 2 in. Wrought hat lath	0	1½	,,
¾ in. × 5 in. Wrought all round and tongued book board with rounded edge	0	3½	,,
Rounded corners to do.	0	4	each
Ends housed	[illegible]	2½	,,
Ends of seat back housed to seat ends ..	0	[illegible]	,,
Do. of seats housed to do.	0	4½	,,
Do. of seats fitted on splay	0	4½	,,
Seat bearers housed to seats	0	4	,,
Wrought bearers 2½ × ¾ and 4 in. long ..	0	6	,,
1 in. Wrought and cut brackets, 4 in × 5 in.	0	6	,,
1½ in Wrought both side seat bearers, 10 in. × 14 in. doubled chamfered at back ..	1	6	,,
Seat ends 2½ in. thick and 36 in. high, wrought both sides, cut to shape and framed to floor	8	0	,,

OAK.

4½ in. × 3 in. Wrought framed and weathered sill	1	1	per ft. run
4½ in. × 4 in. Moulded rail and French polishing	2	9	,,
Ends housed	2	3	each
Extra to piece of do. hinged with brass back flaps	2	6	,,

IRONMONGERY (INCLUDING SCREWS AND FIXING)

	s.	d.	
Pairs 2½ in. butt hinges	1	0	each
Do. 3½ in. Do.	1	4	,,
Do. 4 in. Do.	1	8	,,
Do. 6 in. Do.	3	6	,,
Do. 14 in. cross garnets	2	0	,,
Sets Smith's single action swing hinges and oil £2	[illegible]	0	,,
Pair sham strap hinges, p. c. 10s. per pair..	1	6	,,
10 in. Iron barrel bolts..	1	6	,,
24 in. Iron tower bolts	4	0	,,
4 in. Dead lock	4	0	,,
8 in. Oak bound stock lock	5	0	,,
Strong thumb latch	2	0	,,
Wrought iron latches, with large drop Gothic ring handle	4	0	
Brass bow grip handles	7	6	,,
Brass cabin hooks and eyes on plates ..	1	4	
Iron dowels and mortises in fir and York stone	0	6	,,

SMITH

CAST IRON AND FIXING.

5 in. Semi circular eaves gutter jointed in red lead and fixing	0	3½	per ft. run
Stopped ends	0	5	each
Outlets and gratings	1	9	,,
Moulded eaves, gutter and do.	0	6	per ft. run
Stopped ends	0	6	each
Purpose made angles	7	6	,,
3 in. Round rain water pipe, jointed in red lead, and fixing with pipe nails ..	0	5	per ft. run
Extra to shoes	1	[illegible]	each
4 in. × 3 in. Rain water pipe and do. ..	0	11	per ft. run
Extra to shoes	3	6	each
Mantle shams, 50s. each p. c., and fixing complete £1	17	6	,,
Full sized patent coal plate with chain and fastening	17	6	

WROUGHT IRON AND FIXING.

In rolled iron joists 9½ in. × 4½ in. cut to lengths	9	0	per cwt.
Straps and bolts with heads, nuts and washers, &c. £1	17	6	,,
1 in. × 1 in. Stancheons to windows ..	[illegible]	9	per ft. run
Ornamental heads to do. with leaves rivetted on at sides	7	6	,,
1 in. × ½ in. Saddle bars	9	[illegible]	
Forged eyes in do. for 1 in. square stancheon	1	0	each

PLASTERER

Rendering soffite of fire-proof floor, and twice whiten	0	7	per yd sup.
Render, float, and set walls, finished, rough stucco	1	0	,,
Do. in reveals	0	1½	per ft. sup.
Do. in splayed do., and sills	0	2	,,
Do. circular to soffite of arches ..	0	2½	,,
Lath and half plaster, float, and set and twice whiten ceilings	1	8	per yd sup.
Angle and arris	0	3½	per ft. run
Do. circular to arches	0	3½	,,
Chamfer, 3 in. wide (circular) .. 1½d. or	0	5½	,,
Stops, plain	0	2½	each
Do. moulded	0	9	,,
Chamfer 4 in wide .. .. .. 1¾d. or	0	6	per ft run
Stops on splay .. .. 3d. or	0	9	each
Apex mitres	0	3	,,
Chamfer, 5 in wide .. .. .. 2d. or	0	6½	per ft. run
Stops against splayed reveals .. .. 3d. or	0	10	each

PLUMBER

(*Lead assumed at 14s. 6d.*)

Milled lead and labour in flashings, &c. ..	22	6	per cwt.
Do. in seatings cut to sizes	18	0	,,
½ in. lead pipe, including joints, wall hooks, and fixing	0	5½	per ft run

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Plumber (*continued*)—

	s.	d.	
¾ in lead service pipe and do.	0	7½	per ft. run
1 in lead warning pipe and do.	0	7	"
1¼ in. lead service do.	1	0	"
¾ in lead service and do., and opening and making good ground	1	6	"
Cement joint, 1¼ inch	1	0	each
½ in. soldered joint	1	0	"
1¼ in. do.	1	9	"
½ in. Brass screw down cock and joint, and fixing	4	0	"
¾ in. Brass ball valve with copper ball and joint, and fixing (Stidder's hydraulic)	7	6	"
Galvanized iron cistern to contain 200 gallons, and fixing on proper bearers	60	0	"
W C apparatus, 60s. p. c., including water waste preventers	75	0	"
Sink formed in floor about 6 in. x 6 in. with lead dressed, and 1½ in. lead waste pipe 3 feet long soldered to same	5	0	"

GLAZIER.

	s.	d.	
32 oz. Sheet glass, and glazing under 5 feet sup in a square	0	6	per ft sup
Circular cutting and risk on do.	0	1	per ft. run
⅛ in Rolled plate glass and glazing under 4 feet super in a square	0	4½	per ft. sup.

Glazier (*continued*)—

	s.	d.	
⅛ in. Rolled plate glass and glazing under 7 ft. super in a square	0	5	per ft. sup.
Lead quarry glazing, p.c. 2s. per foot sup., and fixing, including copper wire, &c	2	6	"
Do. in Gothic heads measured square	2	6	"
Lead glazing as before 2s. per foot, and fixing to stone	2	6	"
Circular cuttings and risk on do	0	3	"
Lead glazing 3s. per foot, and fixing to stone	3	6	"
Pieces lead glazing, spandril shape 8 in. x 16 in. extreme	4	0	each
Do. 8 in. x 17 in extreme	4	0	"
Do. 9 in. x 16 in. do.	4	0	"

PAINTER.

	s.	d.	
Painting four coats on ironwork	0	9	per yd. sup
Do. on bar	0	0¾	per ft. run
Do. rainwater pipe	0	1½	"
Do. eaves gutter (in and out)	0	3	"
Do. shoes to rain pipe	0	4	each
Do. hoppers	0	6	"
Size, stain, and twice varnish with best copal on woodwork	1	0	per yd. sup.
Do. frame one side	0	1½	per ft. run
Do. skirting	0	2	"

SECTION No. 4.—BUILDERS' MEASURED ACCOUNT PRICED.

		s.	d.	
Dig and Deposit	Cube	1	0	yard
Concrete	"	9	6	"

DRAINS

	s.	d.	
4 in. Drain pipe and digging, and filling in	0	5½	ft. run
6 in. Do. and do. 2 ft 6 in. deep and do.	0	7	"
6 in. Do. and do. 7 ft. Do. and do.	1	2	"
Extra to 4 in. bends	1	6	each
Do. 6 in. "	1	9	"
Do. 4 in. Junctions	1	9	"
Do. 4 in. to 6 in. Junctions	2	0	"
Do. 6 in. to 6 in. "	2	0	"
Do. 4 in. to 6 in. Taper pipe	2	0	"
6 in. Syphon and Inlet	7	6	"
9 in. Gulleys and setting	7	6	"
Field's trap "	15	0	"
Bellman's trap "	9	6	"
Ends pipe made good to drain	1	0	"
Do. connected with gulley	1	0	"
Connect with Sewer, and pay fees	30	0	"

BRICKLAYER.

	£	s.	d.	
Reduced brickwork in mortar	1	14	0	per rod
Do. do. only in cement	0	0	5	per ft. super.
Half-brick wall in cement	0	0	6	"
Brick nogged partition	0	3	9	per yard "
Twice limewhite	0	0	2	" "
Half-brick Trimmer in cement and centring	0	0	9½	per ft "
Double slate damp course in cement	0	0	4	"
Extra for pointing	0	0	0½	"
Extra labour only in projecting courses as chimney cap.	0	0	6	per ft. run
Do. to brick on edge and double tile creasing in cement as coping	0	0	3	"
9 in. Drain pipes and setting as chimney pots	0	2	6	each
9 in. x 3 in. Air bricks and building in	0	0	7	"
Render chimney backs	0	0	9	"
Ends iron bar cut and pinned	0	0	6	"

RED BRICKS.

	s.	d.	
Extra to facing and pointing	0	4	per ft. sup.
Labour fair cutting on facing	0	2	"
Extra to axed arch	0	9	"
Do. cut and rubbed arch	2	6	"
Do. do elliptic arch	3	0	"
Cut and rubbed gauged apron, 1½ in. proj.	0	3	"
Cut and moulded sinkings in "	2	6	each
Cut and rubbed pilaster 3 in. proj.	0	3	per ft. sup.
Labour fair cutting on facings	0	2	per ft. run
Do. 1 in. or 1½ in. Fluting	0	3	"
Stops	0	3	"
Labour cut and rubbed splay, 2½ in. wide	0	3	"
Extra to splayed plinth	0	2	"
Angles to "	0	3	each
Cut and rubbed moulded course, 3 in. high	0	4	per ft. run
Angles " "	0	4	each
Stops	0	2	each
Cut and moulded cornice, &c., 9 in. high	1	0	per ft. run
Do. on rake	1	3	"
Angles "	0	9	each
Stops	0	4	"

MOULDED BRICKS

	s.	d.	
Extra to ornamental bricks	3	6	per ft. sup.
Ornamental bricks, 6 in. x 6 in., and bedding	1	0	each
Do. do. 9 in. x 9 in., "	2	0	"
1 Panel, 2 ft. 3 in. x 1 ft. 6 in., and bedding	20	0	"
1 Extra to cut, and gauged key brick, 11 in. x 8 in. and 16 in. soffits and bedding	9	6	"

MASON.

	s.	d.	
2 in. Rubbed hearth	1	0	per ft sup
3 in. Corbels	1	[illegible]	"
3 in. tooled step	1	0	per ft. sup.
Fair ends	[illegible]	[illegible]	each
6 in. Rubbed step	[illegible]	[illegible]	per ft sup.
Rounded ends	0	[illegible]	each.
7 in. Rubbed step	1	8	per ft sup

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Mason (*continued*)—

	s.	d.	
Quadrant corners	2	0	each
Fair ends	0	[illegible]	
[illegible] in. Lintel	1	3	per ft. run
[illegible] in. Moulded sill, &c.	1	3	„
13 in. × 3 in. „	1	9	„
9 in. × 3 in. Rubbed, weathered, & throated „	1	6	„
Fair ends	0	6	each
10 in. × 3 in. Sill as before	1	8	per ft. run
Fair ends	0	[illegible]	each
14 in. × [illegible] in. Sill as before	2	0	per ft. run
12 in. × [illegible] in. Rubbed, weathered, moulded, and throated sill	2	6	„
Splayed mitres	1	0	each
Stopped ends	0	6	„
12 in. × 6 in. Rubbed Sill	3	6	per ft. run
15 in. × 3 in. Rubbed, throated, and moulded coping	3	0	„
Splayed mitres	1	3	each
Labour to back joint	0	2	per ft. run
Do. tooled edge 2 in × 3 in	0	3	„
6 in. × 6 in. Curb	2	3	„
Groove and metal tongue	0	5	„
Ends sills made good to or cut and pinned	0	6	each
Dowels and mortices	0	6	„
Tooled templates, 14 in. × 9 in. × 3 in.	1	3	„
Do. 14 in. × 14 in. × 3 in.	1	9	„
12 in. × 9 in. × 3 in. Do. with hole for R. W. pipe	0	2	„
14 in. × 14 in. × 3 in. rubbed, sunk, dished, and rebated stones for iron gratings	2	6	„
Plain chamfered chimney jambs and mantel and fixing	12	0	
Do. segmental head and fixing	25	0	„
Fixing only marble slips with cramps, &c.	10	0	„
Do. do. fender with dowels, &c	5	0	„
Laying tile hearths, including concrete & bed	7	6	„

TILER.

	£	s.	d.	
Tiling bedded in lime and hair	2	14	0	per square
Patent hip tiles and fixing	0	1	0	per ft. run
Ornamental ridge tiles, &c.	0	1	6	„
Cuttings at intersection of ridge and hip	0	1	6	each
Cutting to terminals	0	1	0	„
Ornamental terminal, fixing only	0	2	6	

CARPENTER AND JOINER.

Centring	0	0	3	per ft. sup.
Turning piece	0	0	2	„ run
Fir in wall plates and lentils	0	2	0	„ cube
Do. framed	0	2	8	„ „
Do. bressummer bolted together	0	2	9	„ „
⅞ in. Boarding on roof	0	16	6	per sq. sup.
Tile battens	0	8	0	„
1 in. deal boarding for lead	1	1	6	„
Do. bottom, &c., for safe	0	0	5	per ft. sup.
Felt on roof	0	12	0	per square
Labour to drip	0	0	2	per ft. run
„ splayed edge on 4 in.	0	0	1½	„
2½ in. × ¾ in. batten	0	0	2	„
Herring bone strutting 9 in. joists	0	0	2½	„
Narrow gutter boards and bearers	0	0	[illegible]	„
Tilting fillet	0	0	1	„
7 in. × 1½ in. Springing piece	0	0	2	„
4½ in. × 3 in. Turning „	0	0	3	„
9 in. × 1 in. Wrought fascia	0	0	4	„
7 in. × 1 in. „ and chamfered piece	0	0	4	„
Extra to deal dovetailed cesspool	0	2	0	
Do. cesspool for bath fitting	0	0	4	
Dozen fixing slips	0	0	4	

FLOORS AND SKIRTINGS.

	s.	d.
1 in. Flooring, per square	18	6
Mitred border	2	6
Extra to forming mat pit, 3 ft. × 2 ft.	5	0

Floors and Skirtings (*continued*)—

	s.	d.
7 in. × 1 in. square skirting and grounds and backings, including housings	0	3
7 in. × 1 in. Moulded do. do. do. do.	[illegible]	4
9 in. × 1 in. Do. do. do. do.	[illegible]	4½
15 in. Double faced do. do. do.	1	1
4 in. Moulded chair rail and mitres, notchings, &c.	0	6
Splayed returns	0	6

SASHES, Etc.

	s.	d.	
1½ in. Moulded fixed sash	0	8	per ft. sup.
1½ in. Do. sash hung on butts	0	9	„
2 in. Do. fixed sash	0	9	„
2 in Do. sash hung as before	0	10	„
2 in. Do fixed do. prepared for lead lights	0	10	„
2 in. Do. fixed skylight	0	9	„
2½ in Do. and beaded fanlight as before	1	0	„
Deal cased frames, oak weathered sills, and 2 in. deal moulded sashes, double hung with brass axle pulleys, patent lines, and iron weights	1	4½	„
Do. the upper part prepared to design	1	5½	„
Do. all as first, but Venetian	1	5	„
Do. with moulded linings to bay windows, &c	1	2	„
4½ in. Moulded casement frame in three openings, and 2 in. moulded casements	1	6	„
4½ in. × 3 in. Do. and mullion	1	6	„
Moulded horns to sashes	0	2	each.
Fixing frames and pointing	1	6	„
Door frames „	1	6	„

DOORS.

¾ in. Ledged	0	6	per ft. sup.
1½ in. Do. and beaded	0	9	„
1½ in. Two panel square	0	[illegible]	„
1½ in. Four „	0	9	„
2 in. Do. bead, butt, and square	0	11	„
2 in. Bead, butt, and moulded, upper part for glass	1	4	„
2 in. Four panel, moulded both sides	1	1	„
2 in. Five panel „ „	1	2	„
2 in. Moulded both sides, upper part in nine squares, moulded, and beaded, and prepared for lead lights	2	0	„
2 in. Moulded, and bolection moulded with raised panel, upper part glass	1	6	„
2½ in. Six panel, moulded both sides	2	0	„

FRAMINGS

1½ in. Moulded both sides, three panels high	1	2	„
Extra for doors prepared for glass	3	0	each
2 in. Square, framed both sides	1	1	per ft sup.
Extra for doors in „	3	0	each
Do. fixing to cross framings	2	0	„
2 in. Square, framed sash partition, 3 panels high	1	4	per ft. sup.
Extra for door in „ „	3	0	
Do. beads around panels	0	10	
2 in. Moulded, and square spandril framing	1	3	„

LININGS, ETC.

½ in. Double beaded	0	4	per ft. super.
⅝ in. Beaded	0	4	„
⅝ in. Matched and beaded	0	4	„
¾ in. Double beaded	0	5	„
1 in. Wrought both sides	0	5½	„
1 in. Double beaded	0	[illegible]	„
1 in. Wrought both sides, matched, and beaded	0	7	„
1 in. Wrought both sides, and beaded	0	7	„
1 in. Casing, &c.	0	6	„
1½ in. Wrought, one side lining	0	7	„
1½ in. Wrought double, rebated, and beaded lining	0	7½	„
1½ in. Wrought and beaded casing	0	[illegible]	„

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FITTINGS, ETC.

	s	d.	
⅝ in. Matched and beaded enclosure ..	0	4	per ft. super.
⅝ in. Wrought casing, &c.	0	4	"
¾ in. Wrought both sides shelf ..	0	5½	"
¾ in. Matched and beaded boarding .	0	4	"
¾ in. Matched part circular . .	0	6	"
1 in. Wrought both sides shelf .. .	0	7	"
1 in. Wrought and cross-tongued shelf .	0	8	"
1 in. Wrought and cross-tongued top ..	0	8	"
1 in. Wrought end . .	0	8	"
1 in. Wrought one side casing .. .	0	6	"
1 in. Wrought one side bell board ..	0	7	"
1 in. Cistern cover and weather fillets ..	0	8	"
1½ in. Wrought b. s. cross-tongued shelf	0	7½	"
1¼ in. Square framed cupboard front, and extra to doors in do.	0	9	"
1¼ in. Beaded and square cupboard front,	0	9½	"
Extra to doors in do.	0	9	"
1 Pair of folding do...	1	6	
1½ in. Moulded and square do. .. .	0	11	"
1½ in. Square guard to well hole	1	0	"
1½ in. Do. in 22 squares	1	6	"
1½ in. Top and bearers	0	9	"
1½ in. Wrought b. s., and cross-tongued shelf	0	8½	"
2½ in. Do. and clamped do. . .	0	10	"
Rounded ends to do.	0	6	each
Labour to groove and tongue . .	0	1½	per ft. run
Do. staffbead . . .	0	1	"
Do. rebate . . .	0	0½	"
Do. housing, 1 in.	0	2	"
Do. splayed edge . . .	0	1	"
Do. do. joint or angles	0	2½	"
Do. rounded nosing on 1 in. ..	0	1½	"
Door Stop	0	2	"
2 in. × ⅝ in. Moulded do.	0	2	"
2½ in. × ⅝ in. Do.	0	2	"
2½ in × ¾ in. Rounded do	0	2	"
Rounded ends		3	
2 in. × 1 in. Rounded stop . ..	0	3	"
2½ in. by 1 in. Stop		2	"
2½ in. by 1 in. Chamfered do. .. .		2	"
2 in. by ½ in. Fillet and plugging.. ..	0	2	"
Splayed ends		1	each
1½ in. × ⅝ in. Fillet		1½	per ft. run
2½ in. × ¾ in. Do.	0	2	"
2 in × 1 in. Do. and plugging .. .	0	2½	"
2½ in. × 1 in. Fillet	0	2	"
2½ in. × 1 in. Do.	0	2	"
2¾ in. × 1 in. Do.	0	2½	"
2 in. × 1 in. Screwed bearers .. .		2	"
3½ in. × 1 in. Do.		2½	"
4 in. × 1½ in. Fillet		2	"
3 in. × 1½ in. Screwed bearers . ..		2½	"
¾ in. Staffbead		1	"
1 in. Do.		1½	"
2 in. × ⅝ in. Splayed grounds . .	0	2	"
2 in. × 1 in. Do.		2	"
5 in. × [illegible] in. Lining		3	per ft. super.
6½ in × ⅝ in. Do.		3	"
4½ in × 1 in. Nosing		3	"
6 in. × 1 in. Lining.. . ..	0	3	"
Housings	0	1½	each
4 in. × 1 in. Tongued lining		3	per ft. super.
Housings		1½	each
4 in. × 1 in. Curb	0	[illegible]	"
4½ in. × 1 in. Lining .. .	0	[illegible]	"
5 in. × 1 in. Tongued do.		3½	"
3½ × 1 in. Cloak rail	0	3	per ft. run
4 in. × 1 in. Rail	0	3	per ft. super.
10 in. × 1 in. Chamfered bell board .	0	3	per ft. run
4 in. × 1 in. Rounded capping .. .	0	3	"
8 in. × 1½ in. Saddle backed grooved do.	0	3	"
2 in. × 1½ in. Moulded and grooved do.		4	"
Returns	0	2	
9½ in. × ⅝ in. Double beaded [illegible] backings	0	4	"
6 in. × 1 in. Do	0	3½	"
9 in. × 1 in. Do.	0	4½	"

Fittings, etc. (*continued*)

	s	d.	
4½ in. × 1 in. Linings, grounds, and backings	0	2	per ft run
Housings	0	1½	
½ in. × 1½ in. Linings	0	4	"
[illegible] in. × 1 in. Tongued do...	0	[illegible]	"
Housings	0	1½	
2 in. × 1½ in. Rebated lining	0	[illegible]	"
6½ in. × 1½ in. Jambs and backings ..	0	[illegible]	"
4 in. × 1½ in. Lining . ..	0	[illegible]	"
6 in. × 1½ in. Double rebated, double beaded do	0	4½	"
3½ in. × 1½ in. Tongued and rounded window board	0	3	"
Returned ends	0	2	
Splayed mitres	0	2	
6 in. × 1½ in. Tongued and rounded window board	0	3½	"
6½ in. × 1½ Do.	0	4	"
Returned ends	0	2	
8½ in. × 1½ Rounded window board .	0	4½	"
Returned ends	0	2	
7 in. × 1½ in. Tongued and rounded window board	0	4½	"
Returned ends	0	2½	
10 in. × 1½ in. Double rounded window board	0	4½	"
Returned ends	0	4	
Moulded window nosing	0	5½	"
2 in. × 1½ in. Rounded do. . ..	0	[illegible]	"
Returned ends	0	1½	
4 in. × 1½ in. Tongued lining	0	3½	"
[illegible] in. × 1 in. Double rebated and beaded do.	0	3½	"
[illegible] in. × 1½ in. Do. do.	0	4½	"
2½ in. × 1 in. Chamfered cover rail and plugging	0	3	"
6 in. × 1 in. Chamfered tray rail and rounded fillet	0	6	"
9 in. × 1 in. Chamfered bell board .	0	4½	"
2½ in. × 1½ in. Ledges	0	2	"
4½ in. Circular corner	0	6	"
6 in. × 1 in. Staff-beaded pipe casing ..	0	4	"
Splayed end	0	2	
9 in. × 1 in. Pipe casing	0	6	"
Notchings	0	2	
6 in. × 1½ in. Twice chamfered chimney shelf	0	5	"
Splayed ends..	0	2	
6½ in × 1½ in. Shelf as last	0	5½	"
Splayed ends	0	2	
2 in. × 2 in. Framed bearers .. .	0	2½	"
[illegible] in × 2 in. Do. .. .	0	2½	"
3 in. × 2 in. Do. legs .. .	0	[illegible]	"
3 in. × 3 in. Do .. .	0	2[illegible]	"
3 in. × 2 in. Framed curb	0	[illegible]	"
4½ in. × 1½ in. Square frame .. .	[illegible]	[illegible]	"
4 in. × 1½ in. Do. .	0	[illegible]	"
4 in × [illegible] in. Beaded do. . .	0	1[illegible]	"
[illegible] in. × [illegible] in. Square frame and transom	0	4	"
[illegible] in. × 2 in. Do. do.	0	4	"
4½ in. × 3 in. Wrought all round post .	0	4½	"
Shaped and moulded heads	2	0	
4½ in. × 3 in. Rebated and beaded frame	3	[illegible]	"
6 in. × 3 in. Rebated and moulded do.	0	7	"
5 in. × 4½ in. Rebated and double beaded transom	0	7	"
4½ in × 3 in. Do. do.	0	5½	"
4½ in. × 3 in. Rebated double moulded oak sunk sill..	0	9	"
1½ in. Moulding	0	2	"
1½ in. × 1 in. Do	0	2	"
2 in. × 1 in. Do.	0	2	"
Mitres and housing	0	2	
2½ in. Architrave moulding and mitres	0	2½	"
3 in. Do. do. .	0	3	"
[illegible] in. Do. do ..	0	[illegible]	"
[illegible] in. Do. do ..	0	4½	"
2½ in. Mouldings, as cornice and mitres..	0	2½	
3½ in. Do. do. .	0	3	

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In [illegible] (*continued*)

	s.	d.	
5 in. × 2½ in. Moulding planted on		7	per ft. run
Mitred returns		7	"
Cut hole in [illegible] basin	1	[illegible]	each
Cut hole [illegible] for [illegible]	[illegible]	[illegible]	
[illegible] in Wrought and screwed bearers	[illegible]	[illegible]	
20 in. × [illegible] in. Wrought bearers	[illegible]	[illegible]	
17 in. × [illegible] in. [illegible]	[illegible]	1	"
Splayed beaded hnings 7 in × 6 in. × ¾ in.	0	9	"
Splayed blocks to architraves, 15 in. × 5 in. × 2½ in.	1	3	"
Deal moulded over doors to design, 3 ft 9 in. × 1 ft. 6 in. × 3 in.	15	0	"
Set Mitred beads to glass door panels	1	0	"
Cut, shaped, and chamfered brackets 14 in. × 11 in., and plugging to wall	2	6	"
Deal dresser 6 ft. long, with two drawers, three shelves, and top and beaded fascia, cut, bracketted side, and pot board under, and 3 in. by 3 in. wrought legs	£3	10	0
Copper lid, 27 in. diameter	0	5	0
Plate rack, 3 ft. 6 in. × 3 ft.	1	0	0
Wrought and chamfered bearers to do., with ends cut and pinned	0	1	0
Set W. C. fittings in deal	0	14	0
Deal dust bin, slide cover, &c., 3 ft. 6 in. × 3 ft. 6 in. × 2ft. and painting complete	45	0	each
Deal moulded chimney pieces to design, over mantel, &c., 4 ft. 8 in. × 4 ft. 2 in. extreme, and fixing	45	0	"
Walnut do., fixing only	10	0	"
Fixing only chimney piece and over mantel	15	0	"
1½ in. Wrought, elm top	1	4	per ft. super.
Labour rounded edge to do.	0	3	per ft. run
Labour to cut and dished-hole	1	3	each
10 in. × 3 in. Oak, wrought rounded and weathered sill	2	0	per ft. run
6 in. × 1 in. Wainscot moulded two edges, and polished hat rail and plugging	1	6	"

MAHOGANY AND FRENCH POLISHING.

1½ in. Wrought bath top, &c.	2	4	per ft. super.
Labour rounded edge, part circular	0	2	per ft. run
Quadrant corners	0	3	
Circular end	0	6	
4½ in × ½ in. Skirting	0	8	"
Quadrant corners to do.	0	6	each
Mitres and housings	0	3	
Hole for basin in 1½ in	1	0	each
Set W. C. fittings complete	52	8	per set
Extra for do. to remove easily	2	6	

PLUMBER.

Attend to Bath	3	6
" Lavatory	9	0
" Sink	9	0
" W.C.	3	0

STAIRS IN DEAL.

1½ in. Moulded treads and 1 in risers glued, blocked, and bracketted, and strong carriages to close string	0	9½	per ft. super.
Do. in winders	0	10	"
1 in. Moulded fascia	0	8	"
Labour to groove	0	0½	per ft. run
2½ in. × 1 in. Moulded two edges and planted on	0	4	"
Splayed cutting to do.	0	2	
1½ in. × 1 in Moulded nosing	0	3	"
4½ in. × 1½ in. Do.	0	4	"
6 in. × 1½ in. Do.	0	5	"
1½ in Deal balusters, framed one end to walnut and one to deal	0	2	"
Turnings	0	4	
9 in. × 1½ in. String	0	7	"
Extra to ramp	1	0	"
Splay cuttings and housings	0	3	each
15 in. × 1½ in. Moulded wall string	0	10	per ft. run

Stairs in Deal (*continued*)—

	s.	d.	
Extra to ramp	1	0	per ft. run
11 in. × 1½ in. Moulded close string	0	10	"
Extra to ramp	1	0	"
Returned mitred end	0	3	
Splayed ends	0	3	
Splayed cuttings and housings	0	3	
3½ in. × 2 in. moulded and rebated capping	0	9	"
Splayed mitres	0	4½	each
Ordinary mitres	0	4½	"
3½ in. × 2 in Deal rounded handrail	0	7½	per ft run
3 in. × 3 in. Stop chamfered newel	0	9	"
Circular end	1	0	
3½ in. × 2½ in. Moulded and grooved capping	0	9	"
Splayed cuttings	0	3	
4 in. × 4 in. Octagonal newel	1	4	"
Turnings	1	4	
Turned pendants	0	9	
Housings on joists	0	4	
5 in. × 5 in. framed and moulded newel	1	1	"
Turnings	2	0	each
Turned pendant	1	0	"
4 in. × 3 in Walnut moulded and French polished handrail	5	0	per ft. run
Housings on fittings	0	3	
Ends cut and pinned	0	6	
Housing tread and riser to string	0	3	
Do winder do.	0	4	
Extra to bull nosed step, returned ends	4	0	
12 Turned and capped walnut terminal, and fixing with hard pin and French polishing	7	6	
4 in. × 4 in. Do., do., and do., do.	5	9	
Extra labour and materials in cutting away joists on splay and trimming for headway	2	6	

IRONMONGER.

Pair 2 in Iron butts	0	10	
Do 2½ in do.	1	0	
Do. 3 in do.	1	2	
Do 3½ in do	1	4	
Do 4 in. do	1	4	
Do. 5 in do	2	0	
Do. 2 in Brass butts	1	3	
Do. 18 in. Cross garnetts	1	9	
Do. 20 in. Water joint do.	3	0	
Do. Sash centres	1	0	
Set [illegible] hooks and pulleys	3	0	
4 in. Neck bolt	0	6	
8 in. Barrel do.	1	0	
6 in. Brass do.	2	6	
9 in. do.	3	0	
Norfolk latches	1	4	
Night latch reverse, bolt, and two keys	17	0	
Brass W. C. latch and flush bolt, brass furniture	1	9	
Cupboard lock	[illegible]	9	
6 Rim do.	[illegible]	9	
9 in. Drawback do.	6	6	
10 in. Do.	7	6	
Door Chains	4	6	
Brass cupped screws	0	2	
Do. knobs	0	4	
Do. cockspur fastenings	1	6	
Do. buttons on plates	0	5	
Do. drop hinged sash lifts	1	6	
4 in. Brass thumbscrew	1	5	
Sash fastenings	1	6	
1½ in. Dresser hooks	1	0	per doz.
Japanned hat and coat hooks	0	8	each
Brass do.	[illegible]	8	
Japanned casement stay	1	6	
Brass pull downs	1	3	
Do. flush lifts	1	3	
Perforated zinc	0	6	per ft. super.
Iron dowels and mortises in stone and fir	0	5	each
Do. 12 in. × 1 in. and do.	1	0	"

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FIXING ONLY.

	s	d.	
Bolts	0	9	each
W. C. latches	1	0	
Night latch	1	6	
Cupboard locks	1	0	
Rim do.	1	0	
Do. dead do.	1	0	
Mortise locks and furniture	2	0	
Pair finger plates	1	0	
Night chain	0	6	
Door postal, and handle, and cutting away	2	6	
Knocker, &c.	1	6	
Sash fastenings	0	6	
Casement do.	0	6	
Turnbuckles	0	4	each
Brass knobs	0	1	"
Shutter do.	0	1	"
Hat and coat hooks	0	4	"
Door stops	0	3	"
Thumbscrews	0	6	"

FOUNDER AND SMITH.

Cast Iron and Fixing.

5 in. Ogee gutter	0	6		per ft. run
Outlet	0	9		each
Angles	1	6		"
Stopped ends	0	6		"
Nozzles	0	9		"
3 in. Rainwater pipe	0	6		per ft. run
Swannecks to do.	1	6		each
Heads	3	6		"
Elbow	2	0		"
Shoes	1	6		"
Ends made good to drain	0	4		

Wrought Iron and Fixing.

In bearing bars	0	18	0	per cwt.
In guard do.	1	5	0	"
Spear heads to do.	0	1	0	each
Forged ends and screws	0	0	6	"
Rivetted ends	0	1	0	"
Boring deal and fitting	0	0	4	"
In cramp iron	0	0	3	per lb.
⅝ in. bolts, 14 in. long, and fixing	0	0	9	each
12 in. × 4 in. × ⅜ in. Corbels, and do.	0	2	1	"
24 in. × 8 in. × ⅜ in. do.	0	5	2	"
Area grating 3 ft. 6 in. × 1 ft. 9 in. out of 1½ in. × ⅜ in. and 1⅛ in. apart	1	10	0	"
Letting ends in stone, and running with sulphur	0	0	6	"
Hinged door and frame 18 in. × 16 in. and fixing	0	15	0	"
Strong chain hook and staple, and building in and making good	0	7	6	"

PLASTERER.

Render, float, and set walls	0	0	11	per ft. super.
Render and float cement floor	0	1	6	"
Lath, plaster, float, and set	0	1	4	"
Plaster moulded cornice	0	1	1	"
Mitres to do. 21 in. girt (averaged)	0	1	2	each
Stops to do. 17 in. do. do.	0	0	8½	"
Labour to quirk in plaster	0	0	1	per ft. run

Keene's Cement.

Lath, plaster, float, and set, and finish Keene's Cement	0	3	6	per ft. super.
Cornice to do.	0	1	6	"
Mitre to do. 15 in. girt	0	1	8	each
Plain face 4 in. wide	0	0	2	per ft. run
Do. circular	0	0	3	"
Mitres	0	0	1	
Stopped ends	0	0	1	
Flush moulded skirting, 15 in. high	0	1	0	
Mitres		0	4	
Stops		0	4	

Plasterer (*continued*)—

	£	s	d.	
Rounded angle	0	0	4	per ft. run
Splayed do.	0	0	3	"
Stops	0	0	4	each
Moulded angle	0	0	5	per ft. run
Do. circular	0	0	7	"
Stops	0	0	2½	
Mitres	0	0	3½	
Centre flowers 2 ft. 6 in. diameter	1	1	0	each
Portland cement rendering	0	1	0	per ft. super.

PLUMBER.

Zinc in safe	0	0	7	"
Milled lead and labour	1	5	0	per cwt.
Soldered seam	0	0	6	per ft. run
Do. angle	0	0	3	"
¾ in. Lead service pipe, joints, &c., and fixing	0	0	10	"
1¼ in. Do. do	0	1	4	"
¾ in. Lead waste or overflow do., and do.	0	0	9	"
1¼ in. Do. do.	0	1	4	"
3 in. Do. do.	0	2	9	"
4 in. Lead soil pipe, and do.	0	3	6	"
Extra to Cesspool	0	2	6	
Soldered angle to safe	0	0	3	
Do. joints to ¾ in. pipe (extra)	0	0	10	
Do. do. 1¼ in. do.	0	1	3	
Do. do. 1¼ in. do.	0	1	3	
Do. do. 3 in. do.	0	2	9	
Do. do. 4 in. do.	0	3	6	
Soldered tafted joint to 3 in. pipe	0	3	6	
Do. ends of ¾ in. do.	0	3	6	
Joints of ¾ in. pipe to W.C.	0	3	0	
1½ in. Putty joint	0	1	0	
Reduced ends to 4 in. pipe	0	2	0	
3 in. Lead Swanneck, 36 in. girt	0	9	0	
Ornamental rose ventilating cap	0	2	6	
Fixing W.C.	0	10	0	
Do. Servants' do. on brickwork	0	7	0	
Do. Lavatory basin	0	5	0	
Do. Slop sink	0	3	0	
Do. Bath	1	0	0	
Do. W. W. Preventer	0	5	0	
Ferrule, and joint, and fee	2	6	0	
¾ in. Boiler, screws, and fixing	0	2	0	
1½ in. Do. do.	0	3	6	
¾ in. Screw down bib-cocks, and joints, and fixing	0	5	9	
¾ in. Ball valve, and do., do.	0	7	6	
¾ in. Stop-cocks, and fixing, and joints	0	4	6	each
1 in. Screw down do. and do.	0	10	0	"
Urn cocks do. and do.	0	7	0	"
60 Gallon iron cistern and do.	1	10	0	
80 Do. do. and do.	1	18	0	
Iron cistern, 3 ft. 6 in. × 2 ft. 9 in. × 2 ft., and bearers	2	15	0	

GLAZIER.

21 oz. Sheet glass	0	6		per ft. super.
26 oz. Do.	0	1		"
Do. Ground one side	0	7		"
Fluted sheet	0	9		"
¼ in. Rolled plate	0	9		"
Polished plate	2	3		"

PAINTER.

Three Oils on iron bar	0	1		per ft. run
Do. black	0	1		"
Ventilators, four oils	1	0		each
Air bricks, four oils	0	4		"
Stoves blacked	0	6		"
Hearths blacked	0	6		"
Range blacked	1	1		"
Four oils (on wood)	1	6		per yd. super.
Shelf edge	0	3		per ft. run
Skirting and string	0	2		"
Frames	2	0		each
Large do.	2	6		"

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Painter (*continued*)—

	s.	d.	
Dozen sash squares	2	6	per dozen
Dozen large squares	3	0	"
Casements	1	6	each
Fanlights	0	9	"
Large sky-light	10	0	"
Dresser	7	6	"
Brackets	1	0	"
Chimney pieces	3	6	"
" special design	4	0	"
Four oils, parti-colours	1	2	per yd. super.
Frames	2	4	each
Squares	2	11	per dozen
Large do.	3	6	"
Chimney pieces, special design	5	0	each
Four oils and varnish	1	4	per yd. super.
Skirting and string	0	2½	per ft. run
Shelf edge	0	1¼	"

Painter (*continued*)—

	s.	d.	
Bar	0	1½	per ft run
Frames	2	8	each
Large do.	3	4	"
Sash squares	3	4	per dozen
Large do.	4	0	"
Fanlights	1	0	each
Four and stippled varnish on reveal ..	1	3	per ft. run
Four parti-colours and varnish	1	6	per ft. super.
Shelf edge	0	1¼	per ft. run
Skirting	0	3	"
Fanlight	1	1	each
Chimney piece and over mantel, special design	7	6	"
Clearcole and white ceilings	0	2	per yd. super.
Do. to cornice	0	0½	per ft. run
Do. to centre flowers	1	0	each
Distempering..	0	3	per yd. super.

NOTES, ADDITIONAL PRICES, AND QUOTATIONS.

(*Continued from page 431.*)

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NOTES, ADDITIONAL PRICES, AND QUOTATIONS *(Continued).*

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ACTS OF PARLIAMENT

AND

LEGAL DECISIONS OF THE YEAR.

Compiled by JOHN WARBURTON, Solicitor.

THE ADVERTISING STATIONS (RATING) ACT, 1889

(52 & 53 Vic. Ch. 27),

makes any hoarding, frame, post, wall, or structure used for the exhibition of advertisements, but not otherwise occupied, liable to be rated to the relief of the poor, and to all local rates, according to the value of such use, and Sec. 4 provides for the rating of any land or hereditament occupied for other purposes, to the increased value from such use. Sec. 5 provides that where any corporation, board, vestry, urban, sanitary or other authority shall grant a licence for the temporary erection of any hoard, gantry, scaffold, or other structure upon or over any part of any public highway, or upon or over any lands or hereditaments the property of such corporation, board, vestry, sanitary, or other authority, such corporation, board, vestry, sanitary, or other authority may include in such licence a condition or conditions prohibiting the affixing of any advertisement to any such hoard, gantry, scaffold, or other structure, or sanctioning the affixing of advertisements thereto upon payment of such sum, and on such conditions as the corporation, board, vestry, sanitary, or other authority granting the licence may determine. And it is provided that any person using any such hoard, gantry, scaffold, or other structure otherwise than as permitted by such licence, shall for every offence be liable to a penalty not exceeding five pounds, and a further sum not exceeding forty shillings for every day during which such offence shall be continued after notice in writing to discontinue such use shall have been given to such person by such corporation, board, vestry, sanitary or other authority, which penalties may be recovered in a summary way by such corporation, board, vestry, sanitary, or other authority.

ANCIENT LIGHTS

1. Fluctuating Interruption

A fluctuating interruption of ancient lights caused by the piling up from time to time of packing-cases, was held by the Court of Appeal (reversing the decision of North, J.), not to be such an interruption as is contemplated by the Prescription Act (2 and 3 Will. IV., c. 71, s. 4).

Per Cotton and Lindley, L.JJ. : Semble : if in an action for obstruction of light, it appears on the plaintiff's evidence that there has been some interruption, which in its nature is permanent, the onus is on the plaintiff of proving that such interruption did not in fact continue with his acquiescence for a year; but if the interruption is in its nature *fluctuating* and *temporary*, the onus of proving that it, in fact, continued and was acquiesced in by the plaintiff for a year, lies on the defendant. (*Presland* v. *Bingham*, 41 Ch. D., 268; W. R. [1889], 56.)

In the above case the plaintiff did not press for a mandatory injunction, but asked for damages, and the Court of Appeal referred it to the official referee to report to that Court as to the amount of damages sustained.

2. Light for Special Purpose — Unconsecrated Chapel — Memorial Windows — Mural Decorations — Mosaics — [illegible]

The effect of the decision in *Moore* v. *Hall* (38 L.T. Rep., N.S. 419; 3 Q.B. D. 178) is that light required for a special purpose is not protected under the Prescription Act, unless it has been previously used for that special or a like purpose, or there is a reasonable probability of its being so used.

There is, however, no rule that such special amount of light must have been used for the ordinary prescriptive length of time.

A memorial chapel, unconsecrated, used for Church of England and Presbyterian services, and for confirmation and other classes, and decorated with stained windows and mural mosaics. *Held* to be a "building" within sec. 3 of the Prescription Act, entitled to protection with regard to the light necessary, not only for conducting the services and classes, but also for the designed illumination of the works of art. (*Attorney-General* v. *Queen Anne Garden and Mansions Company*, 60 L. T., 759.)

3. Windows with Shutters occasionally opened.

The right to access of light acquired under sec. 3 of the Prescription Act for an opening used in such a manner as suits the owner's convenience for the passage of light [illegible] in the case of windows with movable shutters, which are opened only occasionally at the owner's pleasure, the rights so [illegible] actually enjoyed under sec. 3, and there is no such interruption of access as will under sec. 4, prevent the right being acquired at the end of the statutory period. (*Cooper* v. *Straker*, 40 Ch. D., 1, 58 L. J. Ch., 26, 57 W. R., 187 Kay J.)

ARBITRATION.

THE ARBITRATION ACT, 1889 (52 & 53 Vic. Ch. 49).

This Act repeals the portions of the former Acts relating to Arbitrations, and enacts as follows:

References by Consent Out of Court.

Submission to be Irrevocable, and to have Effect as an Order of Court.

1. A submission, unless a contrary intention is expressed therein, shall be irrevocable, except by leave of the Court or a judge, and shall have the same effect in all respects as if it had been made an order of Court. (A)

Provisions Implied in Submissions

2. A submission, unless a contrary intention is expressed therein, shall be deemed to include the provisions set forth in the First Schedule to this Act, so far as they are applicable to the reference under the submission.

Reference to Official Referee

3. Where a submission provides that the reference shall be to an official referee, any official referee to whom application is made, shall, subject to any order of the Court or a judge as to transfer or otherwise, hear and determine the matters agreed to be referred.

Notes.

(A) Although a general agreement to refer all disputes which may arise between the parties could not be revoked, a submission to a particular arbitrator was revokable at any time (*Deutsche Springstoff Actien—Gesellschaft* v. *Briscoe*, 20 Q. B. D., 177; 57 L. J., Q. B., 4; 36 W. R., 557, D.) except where the submission provided that it should be made a rule of Court (3 & 4 Wm. IV. c. 42, sec. 39. *In re Mitchell* v. *Governor of Ceylon*, 21 Q. B. D., 493; 57 L. J., Q. B., 524; 36 W. R., 873, C. A.) The Court had power to give leave to revoke a submission to arbitration where it appeared that the arbitrator was going wrong in point of law, even in a matter within his jurisdiction. (See the recent case of *East and West India Dock Company* v. *Kirk*, 12 App. Cas. 738; 57 L. J., Q. B., 295; 58 L. T., 153—H. L., E.) And the only method of taking the opinion of the Court on a question as to the admission or rejection of evidence is before the award to apply to the Court to revoke the arbitrator's authority if he refuse to admit evidence which is legally admissible, or admits evidence which is inadmissible. (*Ib.*) (*Hart* v. *Duke*, 32 L. J., Q. B., 55.) If a party is aware of any objection to an arbitrator, he should not proceed with the reference, even without prejudice. (*Re Elliott and South Devon Railway Co.*, 2 De G. & S., 171. *Re Clant and Metropolitan Railway Co.*, 46 L. T., 141.) But the objection is not waived if the objecting party appear before him under protest. (*Davies* v. *Price*, 34 L. J., Q. B., 8. *Ringland* v. *Lowndes*, 33 L. J., C. P., 327; 17 C. B., N. S., 514.) (See, however, sec. 11.)

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Power to Stay Proceedings where there is a Submission

4. If any party to a submission, or any person claiming through or under him, commences any legal proceedings in any Court against any other party to the submission, or any person claiming through or under him, in respect of any matter agreed to be referred, any party to such legal proceedings may at any time after appearance, and before delivering any pleadings, or taking any other steps in the proceedings, apply to that Court to stay the proceedings, and that Court or a judge thereof if satisfied that there is no sufficient reason why the matter should not be referred in accordance with the submission, and that the applicant was, at the time when the proceedings were commenced, and still remains, ready and willing to do all things necessary to the proper conduct of the arbitration, may make an order staying the proceedings.

Power for the Court in certain Cases to appoint an Arbitrator, Umpire, or Third Arbitrator

5. In any of the following cases :—

(a) Where a submission provides that the reference shall be to a single arbitrator, and all the parties do not after differences have arisen concur in the appointment of an arbitrator:

(b) If an appointed arbitrator refuses to act, or is incapable of acting, or dies, and the submission does not show that it was intended that the vacancy should not be supplied, and the parties do not supply the vacancy.

(c) Where the parties or two arbitrators are at liberty to appoint an umpire or third arbitrator, and do not appoint him.

(d) Where an appointed umpire or third arbitrator refuses to act, or is incapable of acting, or dies, and the submission does not show that it was intended that the vacancy should not be supplied, and the parties or arbitrators do not supply the vacancy:

any party may serve the other parties or the arbitrators, as the case may be, with a written notice to appoint an arbitrator, umpire, or third arbitrator.

If the appointment is not made within seven clear days after the service of the notice, the Court or a judge may, on application by the party who gave the notice, appoint an arbitrator, umpire, or third arbitrator, who shall have the like powers to act in the reference and make an award as if he had been appointed by consent of all parties.

Power for Parties in certain Cases to supply Vacancy

6. Where a submission provides that the reference shall be to two arbitrators, one to be appointed by each party, then, unless the submission expresses a contrary intention—

(a) If either of the appointed arbitrators refuses to act, or is incapable of acting, or dies, the party who appointed him may appoint a new arbitrator in his place;

(b) If, on such a reference, one party fails to appoint an arbitrator, either originally or by way of substitution as aforesaid, for seven clear days after the other party, having appointed his arbitrator, has served the party making default with notice to make the appointment, the party who has appointed an arbitrator may appoint that arbitrator to act as sole arbitrator in the reference, and his award shall be binding on both parties as if he had been appointed by consent:

Provided that the Court or a judge may set aside any appointment made in pursuance of this section.

Powers of Arbitrator

7. The arbitrators or umpire acting under a submission shall, unless the submission expresses a contrary intention, have power—

(a) to administer oaths to or take the affirmations of the parties and witnesses appearing; and

(b) to state an award as to the whole or part thereof in the form of a special case for the opinion of the Court; and

(c) to correct in an award any clerical mistake or error arising from any accidental slip or omission.

Witnesses may be Summoned by Subpœna

8. Any party to a submission may sue out a writ of subpœna ad testificandum, or a writ of subpœna duces tecum, but no person shall be compelled under any such writ to produce any document which he could not be compelled to produce on the trial of an action.

Power to Enlarge Time for making Award.

9. The time for making an award may from time to time be enlarged by order of the Court or a judge, whether the time for making the award has expired or not.

Power to Remit Award

10. (1.) In all cases of reference to arbitration the Court or a judge may from time to time remit the matters referred, or any of them, to the reconsideration of the arbitrators or umpire.

(2.) Where an award is remitted, the arbitrators or umpire shall, unless the order otherwise directs, make their award within three months after the date of the order.

Power to set aside Award.

11. (1.) Where an arbitrator or umpire has misconducted himself, the Court may remove him.

(2.) Where an arbitrator or umpire has misconducted himself, or an arbitration or award has been improperly procured, the Court may set the award aside.

Enforcing Award.

12. An award on a submission may, by leave of the Court or a judge, be enforced in the same manner as a judgment or order to the same effect.

REFERENCES UNDER ORDER OF COURT.

Reference for Report.

13. (1.) Subject to rules of Court and to any right to have particular cases tried by a jury, the Court or a judge may refer any question arising in any cause or matter (other than a criminal proceeding by the Crown) for inquiry or report to any official or special referee.

(2.) The report of an official or special referee may be adopted wholly or partially by the Court or a judge, and if so adopted may be enforced as a judgment or order to the same effect.

Power to Refer in certain Cases

14. In any cause or matter (other than a criminal proceeding by the Crown),—

(a) If all the parties interested who are not under disability consent: or,

(b) If the cause or matter requires any prolonged examination of documents or any scientific or local investigation which cannot in the opinion of the Court or a judge conveniently be made before a jury or conducted by the Court through its other ordinary officers: or,

(c) If the question in dispute consists wholly or in part of matters of account

the Court or a judge may at any time order the whole cause or matter, or any question or issue of fact arising therein, to be tried before a special referee or arbitrator respectively agreed on by the parties, or before an official referee or officer of the Court.

Powers and Remuneration of Referees and Arbitrators.

15. (1) In all cases of reference to an official or special referee or arbitrator under an order of the Court or a judge in any cause or matter, the official or special referee or arbitrator shall be deemed to be an officer of the Court, and shall have such authority, and shall conduct the reference in such manner, as may be prescribed by Rules of Court, and subject thereto as the Court or a judge may direct.

(2) The report or award of any official or special referee or arbitrator on any such reference shall, unless set aside by the Court or a judge, be equivalent to the verdict of a jury.

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(3) The remuneration to be paid to any special referee or arbitrator to whom any matter is referred under order of the Court or a judge shall be determined by the Court or a judge.

Court to have Powers as in References by consent.

16 The Court or a judge shall, as to references under order of the Court or a judge, have all the powers which are by this Act conferred on the Court or a judge as to references by consent out of Court.

Court of Appeal to have Powers of Court

17. Her Majesty's Court of Appeal shall have all the powers conferred by this Act on the Court or a judge thereof under the provisions relating to references under order of the Court.

GENERAL.

Power to Compel Attendance of Witness in any part of the United Kingdom, and to order Habeas Corpus to issue.

18. (1) The Court or a judge may order that a writ of subpœna ad testificandum or of subpœna duces tecum shall issue to compel the attendance before an official or special referee, or before any arbitrator or umpire, of a witness wherever he may be within the United Kingdom.

(2) The Court or a judge may also order that a writ of habeas corpus ad testificandum shall issue to bring up a prisoner for examination before an official or special referee, or before any arbitrator or umpire.

Statement of Case pending Arbitration.

19. Any referee, arbitrator, or umpire may at any stage of the proceedings under a reference, and shall, if so directed by the Court or a judge, state in the form of a special case for the opinion of the Court any question of law arising in the course of the reference.

Costs.

20. Any order made under this Act may be made on such terms as to costs, or otherwise, as the authority making the order thinks just.

Exercise of Powers by Masters and other Officers.

21. Provision may from time to time be made by Rules of Court for conferring on any Master, or other officer of the Supreme Court, all or any of the jurisdiction conferred by this Act on the Court or a judge

Penalty for Perjury.

22 Any person who wilfully and corruptly gives false evidence before any referee, arbitrator, or umpire shall be guilty of perjury, as if the evidence had been given in open Court, and may be dealt with, prosecuted, and punished accordingly

Crown to be Bound.

23. This Act shall, except as in this Act expressly mentioned apply to any arbitration to which Her Majesty the Queen either in right of the Crown, or of the Duchy of Lancaster or otherwise, or the Duke of Cornwall, is a party, but nothing in this Act shall empower the Court or a judge to order any proceedings to which Her Majesty or the Duke of Cornwall is a party, or any question or issue in any such proceedings, to be tried before any referee, arbitrator, or officer without the consent of Her Majesty or the Duke of Cornwall, as the case may be, or shall affect the law as to costs payable by the Crown.

Application of Act to References under Statutory Powers. (B)

24. This Act shall apply to every arbitration under any Act passed before or after the commencement of this Act as if the arbitration were pursuant to a submission, except in so far as this Act is inconsistent with the Act regulating the arbitration, or with any rules or procedure authorised or recognised by that Act.

NOTES.

(B) There are five kinds of reference possible in the case of a party wall in the metropolis, viz.: 1. To one surveyor by the concurrence of both parties under sub section 7 of Sec. 85 of the Metropolitan Building Act. 2. To three surveyors under that sub-section, which is the usual case. 3. To a sole referee outside the Building Act. 4. To two arbitrators and an umpire outside the Building Act. 5. To three arbitrators outside.

Saving for pending Arbitrations.

25. This Act shall not affect any arbitration pending at the commencement of this Act, but shall apply to any arbitration commenced after the commencement of this Act under any agreement or order made before the commencement of this Act.

Repeal.

26. (1) The enactments described in the Second Schedule to this Act are hereby repealed to the extent therein mentioned but this repeal shall not affect anything done or suffered, or any right acquired or duty imposed or liability incurred, before the commencement of this Act, or the institution or prosecution to its termination of any legal proceeding or other remedy for ascertaining or enforcing any such liability.

(2) Any enactment or instrument referring to any enactment repealed by this Act shall be construed as referring to this Act.

Definitions

27. In this Act, unless the contrary intention appears,—

"Submission" means a written agreement to submit present or future differences to arbitration, whether an arbitrator is named therein or not.

"Court" means Her Majesty's High Court of Justice.

"Judge" means a judge of Her Majesty's High Court of Justice.

"Rules of Court" means the Rules of the Supreme Court made by the proper authority under the Judicature Acts.

Extent

28. This Act shall not extend to Scotland or Ireland.

Commencement.

29. This Act shall commence and come into operation on the first day of January one thousand eight hundred and ninety.

Short Title.

30. This Act may be cited as the Arbitration Act, 1889.

THE FIRST SCHEDULE

Provisions to be Implied in Submissions.

a. If no other mode of reference is provided, the reference shall be to a single arbitrator.

b. If the reference is to two arbitrators, the two arbitrators may appoint an umpire at any time within the period during which they have power to make an award.

c. The arbitrators shall make their award in writing within three months after entering on the reference, or after having been called on to act by notice in writing from any party to the submission, or on or before any later day to which the arbitrators by any writing signed by them, may from time to time enlarge the time for making the award

d. If the arbitrators have allowed their time or extended time to expire without making an award, or have delivered to any party to the submission, or to the umpire a notice in writing, stating that they cannot agree, the umpire may forthwith enter on the reference in lieu of the arbitrators

e. The umpire shall make his award within one month after the original or extended time appointed for making the award of the arbitrators has expired, or on or before any later day to which the umpire by any writing signed by him may from time to time enlarge the time for making his award.

f. The parties to the reference, and all persons claiming through them respectively, shall, subject to any legal objection, submit to be examined by the arbitrators or umpire, on oath or affirmation, in relation to the matters in dispute, and shall subject as aforesaid, produce before the arbitrators or umpire, all books, deeds, papers, accounts, writings, and documents within their possession or power respectively which may be required or called for, and do all other things which during the proceedings on the reference the arbitrators or umpire may require

g. The witnesses on the reference shall, if the arbitrators or umpire think fit, be examined on oath or affirmation.

h. The award to be made by the arbitrators or umpire shall be final, and binding on the parties and the persons claiming under them respectively.

i. The costs of the reference and award shall be in the

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discretion of the arbitrators or umpire, who may direct to and by whom, and in what manner those costs or any part thereof shall be paid, and may tax or settle the amount of costs to be so paid or any part thereof, and may award costs to be paid as between solicitor and client.

ARTIZANS' AND LABOURERS' DWELLINGS.

"Owner" — Definition of — Time when ownership to be ascertained.

By various sections of the Artizans' and Labourers' Dwellings Act, 1868, notice of all proceedings, &c., under the Act are directed to be served upon the "owner" of the premises which are being dealt with by the local authority. By sec. 3, "owner" is to include "all lessees or mortgagees of any premises required to be dealt with under this Act, except persons holding or entitled to the rents and profits of such premises for a term of years, of which twenty-one years do not remain unexpired." In July, 1886, the tenant of premises was possessed of them as assignee of a lease expiring at Michaelmas, 1886, and was also the assignee of another lease of the same premises for twenty-one years, commencing on the expiration of the first lease. In the same month the Vestry, in the exercise of their powers under the Act, caused copies of the reports of their officer of health and their surveyor, with a notice of the time and place appointed for their consideration, to be served upon the tenant, as being the "owner" under sec. 7 of the Act. In the following October an order was made by the Vestry for the demolition of the premises. The work required was done by the tenant, who, upon its completion, applied to, and obtained from the Vestry, a charging order upon the premises. *Held*, that although the interest of the tenant in the new lease was in law only an *interesse termini*, he had such an interest in the premises at the time when the proceedings were initiated by service of the notices upon him as to make him the "owner" within the meaning of the section, and, that the point of time to be looked at in order to determine the ownership for the purposes of the Act, was the date of the service of the notices, and not of the making of the order for demolition. (*Reg.* v. *St. Marylebone Vestry*, 20 Q. B. D., 415; 57 L. J., M. C., 9; 58 L. T., 180; 36 W. R., 271; 52 J. P., 534—D.)

BANKRUPTCY.

Keeping of Books.

A bankrupt began business as an architect and surveyor in 1881 with about £1,000 invested in mortgages and shares, and he attributed his failure to loss in connection with the purchase of the carcase of a house at Harrow, which he employed the petitioning creditor to complete; and to other causes. The Official Receiver reported in opposition to the application that the bankrupt had been guilty of a statutory offence by omitting to keep such books of account as were usual and proper in his business and as sufficiently disclosed his business transactions and financial position within the three years immediately preceding his bankruptcy. He stated that the bankrupt had produced an imperfectly kept cash book, which showed the accounts with some of his creditors, and also sundry subsidiary books, but he had not kept a proper ledger showing the accounts with his creditors, nor any accounts of his trade expenses or drawings for personal expenditure, and he admitted that his books had not been balanced. The petitioning creditor opposed on other grounds, which are not material.

Mr. Reed, for the bankrupt, submitted two questions—first, whether the profession of an architect and surveyor was a "trade or business" within the meaning of the section 28 of the Bankruptcy Act; and, secondly, what books were necessary to be kept in it? He cited "*Ex parte* the Board of Trade *re* Mutton" (Law Report 9 Q. B. D., 102; 3 *The Times* Law Reports, 623), and referred to the bankrupt's evidence, which showed that his books, taken together, contained a record of the whole of his transactions. Some small debts owing to him were also entered in the ledger. He submitted that it was difficult to say what books an architect ought to keep. Should he be required to keep bought and sold ledgers, day books, and books of that description? And what kind of ledgers could he keep?

Mr. Registrar Linklater, in giving judgment, said it was charged against the bankrupt that he had omitted to keep such books of account as were usual and proper in his business of an architect, but a doubt had been expressed whether an architect could be said to carry on a business. He did not know how that was; it seemed to be a question of fact, and not of law. He should have thought an architect did carry on a business, but there was no evidence on the subject one way or the other. The Official Receiver, however, clearly reported that the bankrupt had omitted to keep proper books in his business, and this must be taken as *prima facie* evidence, but his Honour had no judicial knowledge on the subject. Assuming, however, that the offence was proved, it appeared from the proceedings that the interests of creditors had practically not been affected by the omission, and the discharge would be granted, subject to a nominal suspense of three weeks. (*In re Shiner*, "*Times*" *Report*, *Nov. 27th.*)

BUILDING AGREEMENT.

1. Delay in Building.

Where the freeholder's agents desired the builder to stop building till it was seen what became of a railway scheme, it was held that the latter had a right to a reasonable time beyond that provided for in the agreement to complete the building operations which had been so stopped. (*Birmingham and District Land Co.* v. *London and North Western Railway Co* [No. 3.], C. A., 40 Ch. D., 268.)

2. Right to Lease. Power of Re-entry.—Rent in Arrear.

Since the Judicature Acts, a tenant holding under an agreement for a lease of which specific performance would be decreed, stands in the same position as if the lease had been granted. (*Walsh* v. *Lonsdale*, 21 Ch. D., 9.) By a building agreement it was stipulated that as soon as R. should have *roofed-in* the houses to be erected by him on certain plots of ground belonging to H., H. would grant, and R. would accept, a separate lease for 99 years, at the rent therein mentioned, of each house when, and so soon as, the *roof was completed*, and the plot of ground on which it stood; the leases to be in the form of a draft annexed to the agreement. There was a proviso that the lessor "in respect of any of the plots not previously demised" might re-enter in the event of the rent being in arrear for twenty one days. The form of lease contained a covenant to complete the house within a certain period, and a proviso for re-entry on non-payment of rent, or breach of covenant, but no power of re-entry was given if the works were not proceeded with for twenty-one days. In June, 1889, R. assigned to L. the benefit of the agreement as to four houses, which, it was said, he had roofed in. It appeared that the main buildings on the plot were completely roofed in, but a projection of one storey in height forming the front part of the shops extending about seven feet in front of the main wall, and intended to have a flat zinc roof, was only roofed-in with wood, the zinc not having been put on. R. died in July, 1887, and after his death building operations stopped for more than twenty-one days. In Oct., 1887, L. brought his action to compel H. to grant leases. H., by his defence, denied the right of L. to leases, on the grounds that the works had been stopped for more than twenty-one days and that the rent was in arrear.

Held. That R. had *roofed-in* the houses according to the meaning of the agreement, and that as soon as he had roofed in a house he was entitled to claim, and bound to accept a lease of it, and that his rights and liabilities were the same as if a lease had been granted, and he no longer held the house on the terms of the building agreement but on the terms of the draft lease, and that as the draft contained no power of re-entry on work being discontinued for twenty-one days, that discontinuance, which did not take place until after the right to a lease had accrued, did not affect that right. (*Lowther* v. *Heaver*. C. A. affirming Kekewich, J.; W. N. [1888] 201; W. R. [1889] 50; 41 Ch. D., 248.) (A)

3. Admission of Right to Lease by Demanding Rent.

Where the plaintiff did not complete the houses within the time fixed by the agreement, which provided that no tenancy should be created until the leases were executed, and there was a power to re-enter on breach, notwithstanding any previous waiver, but the defendant demanded the rent which was paid and receipt for it given, "without prejudice to any remedy or liability in respect of any past breach of covenant." It was held that by demanding rent the defendant recognised the plaintiff's right to leases, and that he could not make any conditions to payment made in compliance with such demand, and that relief might be given in respect of the breach of covenant. (*Strong* v. *Stringer*, W. N. [1889] 135; 61 L. T. Rep., 470.)

BUILDING MATERIAL.

1. Contract in Writing.

A contract for the sale of building materials to be taken down and removed by the purchaser, is a contract for the sale of an interest in land within sec. 4 of the Statute of Frauds, and must therefore be in writing (*Lavery* v. *Purssell*, 39 Ch. D., 508; 57 L. J. Ch., 570; 58 L. T., 846; 37 W. R., 163.)

N.

(A) If it is not desired to give a lease, or confer any of the rights of a lessee, until the buildings are finished the agreement must therefore strictly provide for this.

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2 Bill of Sale.—Building Agreement.—Sale of Materials.

By a mortgage deed the plaintiff assigned to the defendant certain [illegible] and other bricks, timber, slates and other building materials which may at any time hereafter be brought by or for the mortgagor into the said premises for completing the said buildings.' Plaintiff covenanted "that all bricks, timber, &c., which shall be brought upon the premises, &c., shall be considered as immediately attached to, and forming part of the fee simple of and in the same premises, and no part of the said bricks, &c., shall be removed from the premises but with the concurrence of the mortgagees," and that "in case the mortgagor shall not proceed with the completion, &c., to the satisfaction of the mortgagees, it shall be lawful for the mortgagees to enter upon the premises and to seize and take possession of all bricks, &c., and other building materials, and to complete the said messuages." The deed further provided that in case of default by the mortgagor it shall be lawful for the mortgagees to sell all or any part of the hereditaments or premises, and all bricks, timber, slates, &c., or materials standing and being thereon, or on any part thereof, either together or in parcels, &c. *Held*, that inasmuch as it gave a power to sell the building materials which was independent of the power to enter upon and take possession of the premises, and might be exercised without the latter power being exercised, the deed was an assurance of personal chattels, or a license to take possession of personal chattels, as security for a debt within the meaning of sec 4 of the Bills of Sale Act, 1878, and therefore was a Bill of Sale, and was void under sec 8 of the Act of 1882, for want of registration in respect of the personal chattels comprised therein. (*In re Yates, Batchelder* v. *Yates*, 38 Ch. D, 112, distinguished. *Champion* v. *Coles & another*, 23 Q. B. D., 465.)

BUILDING RESTRICTIONS.

1. Covenant to Erect Houses of certain value—Erection of Houses of less value—Proof of Damage

A plaintiff bought certain plots on a building estate subject to certain restrictions. The defendant subsequently bought other plots with a restriction as to the value of the house to be erected, but he proposed to build houses of less value. Held, that the plaintiff in such a case is not obliged to prove damage in order to obtain an injunction. (*Collins* v. *Castle*, 36 Ch. D., 243; 57 L. J., Ch., 75; 57 L. T., 764; 36 W. R., 200. Kekewich, J.)

2. Mortgagor and Mortgagee.

Where a part of a building estate was sold with restrictive covenants, and afterwards subdivided and mortgaged, North, J., *held* that the mortgagor and owner of part could not enforce the covenants against the owner of the other part, who was a purchaser from the mortgagee; there being no obligation implied as between mortgagor and mortgagee restricting the use of the land (*King* v. *Dickeson*, W. R. [1889] 53; 40 Ch. D., 596.)

COMMISSION.

1 Custom.

The plaintiff carried on business in Mark-lane, City, and was employed in April, 1885, to sell a piece of land for building purposes, belonging to the defendant, at Baker-street, Enfield. He found a purchaser in a Mr Wright, who commenced operations, but for some reason or other, never completed the building of the 18 projected houses. After a correspondence, the defendant paid some £18 in sums of £10 and £8, to the plaintiff in respect of his commission, and this action was brought in March, 1889, to recover £82, the balance of £100, the value of the commission alleged to have been earned. According to the plaintiff's case this was payable as soon as the agreement was signed by the parties; and the above sum was calculated on the basis of one year's *maximum* ground-rent. But the defendant said that no such commission was due until the land had been covered and ground-rent had been created for his benefit. There was a strong conflict of evidence on the point as to which custom prevailed, and several architects, surveyors, and engineers were called on either side in support their respective contentions. At the conclusion of the evidence, Mr. Baron Pollock said the case depended on which custom had been established of those attempted to be set up. It must be taken the defendant had made no admissions in the correspondence to take himself out of the custom. He came to his conclusion not without some difficulty; but regard must be had to the general rule that commission was earned when the contract was obtained. This was the general rule of commercial contracts, and those for the sale of goods, and was quite apart from the solvency of the purchaser or his power to perform his contract He thought it did not become due by merely getting a man to sign a paper, but getting the man to do something whereby the landlord was enabled to earn his rent—that is, building the houses. He said this with the full belief that the plaintiff's witnesses had given their evidence honestly. On the whole, therefore, he thought the custom was to pay the commission in these agreements not when the agreement was signed by the parties, but when leases were granted and ground rent accrued after the houses were built. In that view, therefore, there would be a verdict and judgment for the defendant, with costs.—(*Kirk* v. *Evans*, "*Times*" *Report*.)

2. When Earned—Introduction of Purchaser to Bankrupt—Subsequent Purchase from Trustee.

On January 7th, 1887, an estate agent, in whose hands the debtor had placed certain property for sale, introduced to such debtor a person with a view to purchase, but no agreement could then be come to as to terms, and the debtor a few days afterwards presented his own petition in bankruptcy. On January 17th, 1887, further negotiations took place between the persons so introduced and the trustee in the bankruptcy in respect of the property, and on January 24th, 1887, the purchase was completed, but a proof subsequently tendered by the estate agent for his commission was rejected by such trustee. *Held*, that the sale was brought about in consequence of the introduction, and was traceable thereto, and that the proof for commission must be allowed. (*Durrant*, ex parte, *Beale*, In re, 5 M B R., 37, D)

FIXTURES.

Trade Machinery—Bills of Sale Act

The Greenside Glazed Fire-brick Co, having the right to all the coal and fire-clay, erected on the surface of the land, for the purposes of their business, a fixed steam engine with main shafting and gearing; a fixed boiler with mountings; a fixed donkey engine with fixed pumps and well cover; a fixed weighing machine and certain steam piping, and the fittings thereof in the drying shed These articles were fixed to the surface of the land, but were held not to be "personal chattels," for any of the purposes of the Bills of Sale Act so as to require the registration of a memorandum of deposit of the deeds of the land given to a Bank as security for advances, although such fixtures were comprised in the Bank's security The effect of sec. 5 of the Bills of Sale Act, 1878, being to prevent the articles, which, by it, are excluded from the definition of "trade machinery," from being "personal chattels" for any of the purposes of the Act (*Topham* v. *Greenside Glazed Fire brick Company*, 37 Ch. D, 281; 57 L. J, Ch., 589; 58 L. T., 274; 36 W. R., 464. North, J.)

THE INTERPRETATION ACT, 1889,

(52 and 53 Vict, Ch. 63),

n acts as follows:

Meaning of "Ordnance Map."

Sec. 25 In this Act and in every other Act, whether passed before or after the commencement of this Act, the expression "ordnance map" shall, unless the contrary intention appears, mean a map made under the powers conferred by the Survey (Great Britain) Acts, 1841 to 1870, or by the Survey (Ireland) Acts, 1825 to 1870, and the Acts amending the same respectively.

LANDLORD AND TENANT

Forfeiture for not repairing.

No notice to repair is necessary under the provisions of sec 14 of the Conveyancing and Law of Property Act, 1881, in the case of an agreement for a lease, where there is no actual lease in existence, and the tenant has neglected to keep the terms of the agreement as to repairs.

(*Swain* v. *Ayres*, 21 Q B D, 289; 57 L. J., Q. B., [illegible] W R, 98, C A. Affirming 20 Q. B. D [illegible] 52 J. P., 500.—Charles, J.)

LIGHTS.

1. Derogation from Grant Intervening Strip of Land.

The rule of law which was stated in the judgment of Sir George Jessel in *Allen* v. *Taylor* (16 Ch. D., 355) as follows, "Where a man grants a house in which there are windows, neither he nor anybody claiming under him can stop up the windows or destroy the lights," was held not to apply where the grantee was aware that the adjoining land was to be laid out as a new street, and the interference was caused by laying out the remainder of the street for building houses suitable for the locality. (*Birmingham Banking Co.* v. *Ross*, 38 Ch. D., 295; 57 L. J., Ch, 601; 57 L. T., 609, C. A.)

2. Reservation in Lease of Right to Obstruct Lights.

A land owner granted a lease to a plaintiff of a house and land with their appurtenances, except rights, if any, restricting the free use of any adjoining land, or the appropriation at any time thereafter of any such land for building or other purposes, obstructive or otherwise.

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More than twenty years after this lease the subsequent lessee of an adjoining piece of land under the same land-owner commenced to build on it in such a way as to obstruct the plaintiff's light. The plaintiff, having brought an action and moved for an injunction, *Held*, that the exception of any right restricting the free use of the adjoining land did not operate as an agreement or consent on the part of the lessee that the owners of the adjoining land might always have a right to obstruct the access of light to the plaintiff's house, within the exception in the 3rd section of the Prescription Act, and, therefore, that the plaintiff had acquired an absolute prescriptive right to the light, and was entitled to an injunction. (*Mitchell* v. *Cantrill*, 37 Ch. D., 56; 57 L. J., Ch., 72; 58 L. T., 29; 36 W. R., 229, C. A.)

METROPOLITAN BUILDING ACTS

1. Height of Buildings.

A firm of contractors recently appeared to a summons before Mr. Biron, Q.C., at the Westminster Police Court at the instance of Mr. Benjamin Tabberer, deputy-district surveyor, charging them, under the Building Acts, with erecting buildings at Queen Anne's-gate, Westminster, known as Queen Anne's Mansions, of a greater height than 100feet without having obtained the special sanction of the London County Council. It was stated that this was the first case which had been pressed to a decision with regard to the height of buildings in the Metropolis, and it was contended that the 18 and 19 Vic., c. 122, section 12, part 1, of the schedule, and also section 3 of the miscellaneous provisions of that statute showed that the sanction of the Metropolitan Board (whose powers had been taken over by the County Council) was required for the erection of the external walls of a building to a greater height than 100ft. On the other hand it was urged that the statute made no such restriction, and as long as they made the walls of the requisite thickness the height was immaterial. Mr. Biron said the Act pointed to 100ft. as being a height not likely to be exceeded, but it went no further than that. *Mr. Burton*, for the prosecutor.—If you are against me, sir, and I assume you are, a building can be put up any height the builder likes. I must ask you for a case, for this is a very important public question. Mr. Biron—No doubt, I suppose you can agree as to the facts. The building is higher than 100ft. *Mr. Boyle*, for the defendants.—We admit that. *Mr. Burton.*—And we admit that so far as concerns the thickness of the walls, the building has been constructed in accordance with the Act. Mr. Biron.—And in my judgment the builders are not restricted to 100ft. I hardly see how I can grant a case. *Mr. Boyle.*—Let them appeal in the ordinary way. So generally is it known that the Council have not the power they claim, that a Bill was brought into Parliament to regulate the height of buildings. Mr. Biron dismissed the summons, and allowed five guineas costs. (*See "Times" Report, Nov. 7, 1889.*)

2. Wall—Inserting Beam or Rafter in Wall—Alleged Trespass—Statute of Limitations.

The plaintiff and defendant were in possession of adjoining houses, both of which were ancient messuages. The plaintiff's house was considerably higher than the defendant's house, and was built up against the western wall of the defendant's house, to the height to which such western wall extended. Up to this height there was no other wall between the two houses, but the plaintiff alleged that on the top of the western wall, and above the roof of the defendant's house, an external wall was erected at the time of the building of the plaintiff's house, forming part thereof and supporting the roof thereof. The western wall, on the top of which the external wall had been erected, was admitted by the plaintiff to be the property of the defendant, subject to all rights and easements over the same in favour of the plaintiff's house. The external wall erected on the top of the defendant's western wall was, the plaintiff alleged, his property. The defendant being desirous of adding to the height of his house, removed some of the stones comprising the external wall, and inserted in the holes thereby made, certain beams, for the purpose of supporting a new roof to his house at a greater height than his old roof. The plaintiff claimed an injunction to restrain such acts, on the ground that the defendant was a trespasser. The defendant alleged that the wall was his, but admitted that the plaintiff had certain rights in respect to the wall which he, the defendant, had not in any way interfered with. *Held*, that the plaintiff had been in enjoyment of an easement but not in possession; and that nothing had occurred to displace the defendant's original title to the wall. *Held*, therefore, that the action failed. (*Waddington* v. *Naylor*, 60 L. T., 430.)

3. Party Structure—Damage.

The plaintiff, an owner in fee simple, of a house in London, brought an action against builders claiming damages on the ground that they, in the course of rebuilding an hotel, had caused injury to the plaintiff's house by cracking and displacing the wall, and also asking for an injunction. On the motion for injunction an inquiry as to damage was directed to be taken before a special referee, and the referee assessed the structural damage at £40, without prejudice to any question of liability.

The defendants in their statement of defence alleged that the works were executed under the provisions of the Metropolitan Building Act, and that the damage (if any) to the plaintiff's premises was a necessary consequence of carrying out the said works, and that the plaintiff's remedy (if any) was only against the building owner by whom the defendants were employed.

Held: That the Metropolitan Building Act did not exonerate a builder from liability for damage which had arisen from his negligence and want of care and skill. The maxim, "*respondeat superior*," does not absolve the inferior if by his negligence a loss has been sustained. If, in doing the act, he is guilty of negligence whereby loss and damage are occasioned to another, he is personally liable. (*White* v. *Peto*, 58 L. T., 710. Kay, J.)

4. Projections.

Held (by Div. Ct., Lord Coleridge, C. J., dissenting), that sec. 26 of the Metropolitan Building Act, 1885, did not amount to a repeal *pro tanto* of sec. 72 of Michael Angelo Taylor's Act (57 George III., c. xxix.), that it only authorised projections in cases where but for a statutory prohibition they would be lawful, and did not authorise projections which would interfere with the user by the public of a public footway. (*Vestry of St. Mary, Islington*, v. *Goodman*, 23 Q. B. D., 154.)

METROPOLIS MANAGEMENT ACTS.

1. General Line of Buildings—House at Corner of Two Streets.

The appellant's house was built at the corner of S. Road and C. Road. The superintending architect of the Metropolitan Board of Works gave his certificate under sec. 75 of the Metropolis Management Amendment Act, 1862, that the building line in the C. Road was fifty feet from the highway. At the date of this certificate all the houses on the west side of the S. Road, including the appellant's house, had a uniform line of frontage to that road only; and there was no access to the appellant's house from any other road. The appellant's house was within fifty feet of C. Road, and it was found as a fact that the site on which the appellant's house was built was in the C. Road.

Held: That although the appellant's house faced the S. Road, as it was within the building line of the C. Road it was bound to follow the building line in C. Road, and that the magistrate had power to order the removal of the house, or so much of it as projected beyond the building line in the C. Road. (*Gilbart, app.*, v. *The Wandsworth District Board of Work, resps.*, 60 L. T., 149.)

2. Line of Frontage.

A builder was summoned at the West London Police Court at the instance of the Fulham Vestry, for building beyond the line of frontage in Crown Road and Adeney Road. The buildings were next to the Queen Anne Tavern, and it was stated that a letter was sent to the defendant cautioning him not to proceed with them until the plans had been approved. *Mr. Cautley*, for the defendant, said the defendant was willing to do everything that was required short of pulling down the houses. A proposal was made, but the vestry refused to accept it. Mr. Norrington, the vestry surveyor, stated that Crown Road was not straight, and it was customary for a general line of buildings to follow the kerb. *Mr. Cautley* referred to the plan of the superintending architect, who defined the line of frontage, and said the straight line would extend to the middle of Crown Road. The buildings were considerably behind that line. In dealing with Adeney Road he relied on the case of Barlow, with reference to the line of frontage in De Vere Gardens. He called the defendant, who said that the adjoining owners did not complain. They were pleased at his stopping up the dirty corner. Until he built up to the first floor he did not know that he was doing anything contrary to the law. He did not remember receiving a letter cautioning him not to proceed with the buildings until the plans were approved. He had been a builder in Kensington and Fulham for twenty years. If a line were drawn and everybody treated alike he should not be wrong. Mr. White, at the conclusion of the defendant's case, submitted that the line must follow the kerb of the street. Mr. Plowden held that the houses in Crown Road had been built beyond the line of frontage, and therefore he made an order for their demolition to the extent necessary. With regard to

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the corner house he should not make any order, as he was guided by the decision in the case of Barlow against the Kensington Vestry, as it was partly in two streets. With regard to the house which was wholly in Adsney Street he made an order for its demolition to the extent necessary. Mr. White asked the magistrate to determine in what street the corner house was. Mr Plowden said it was in both streets, and therefore he could not interfere. He did not order any costs. (*See "Times" report.*)

3. "Sewer"—"Drain"—Vesting of Sewers in District Board—Connection of Drain illegally made without knowledge of Board—Liability of Board.

The duty imposed by sec. 72 of the Metropolis Local Management Act, 1855, on a District Board, to keep the sewers which are by the Act vested in them so as not to be a nuisance, is not an absolute duty, but only a duty to use all reasonable care and diligence to keep the sewers in a proper condition. If, therefore, a drain which was originally a private drain, has, by reason of another drain being connected with it, become a "sewer," and therefore by the Act vested in the District Board, the Board will not be liable for a nuisance caused by the drain, if it is shown that the connection was made illegally without the knowledge of the Board, and that before action brought, they did not know, and could not by the exercise of reasonable care have discovered, that the drain was a "sewer." (*Hammond* v. *St. Pancras*, 9 L. R., C. P., 316, followed.) (*Bateman* v. *Poplar Board of Works*, [No. 2], 37 Ch. D., 272; 57 L. J., Ch., 579; 58 L. T., 720; 36 W. R., 501. North, J.)

NEGLIGENCE

Valuer—Mortgage—Action by Mortgagee against Valuers for Negligence and Misrepresentation.

An intending mortgagor, at the request of the solicitors of an intending mortgagee, applied to a firm of valuers for a valuation of the property proposed to be mortgaged. A valuation of the sum of £3,000 was sent in by the valuers direct to the mortagee's solicitors, and the mortgage was subsequently carried out. Default having been made in payment by the mortgagor, and a loss having resulted to the mortgagee, he commenced an action against the valuers for damages for the loss sustained through their negligence, misrepresentation, and breach of duty. The court being satisfied on the evidence that the defendants knew at the time the valuation was made that it was for the purpose of an advance, and that the valuation as made was in fact no valuation at all

Held, that, under the circumstances, the defendants were liable on two grounds; (1) that they (independently of contract, owed a duty to the plaintiff which they had failed to discharge (2) that they had made reckless statements on which the plaintiff had acted (*George* v. *Shivington*, 5 L. R., Ex., 1; and *Heaven* v. *Pender*, 11 Q. B. D., 503 followed. *Peek* v. *Derry*, 37 Ch. D., 541, discussed. *Cann* v. *Willson*, 39 Ch. D., 39; 57 L. J., Ch., 1,034; 37 W. R., 23. Chitty, J.)

NUISANCE.

Reasonable Use.

Injunction was granted to restrain an hotel keeper from using a stove which he had put up, the heat of which rendered a cellar in the adjoining house unfit for the storage of wine. (*Reinhardt* v. *Mentasti*, L. R. 42, Ch. D. 682.)

PUBLIC HEALTH ACT.

1. Strip of Land added to Highway—Notice to Frontagers to Pave.

Owners of land adjoining a highway repairable by the inhabitants at large erected houses on their land, and threw open to the highway a strip of land in front of them. *Held*, that the houses with the strip of land in front, together formed a "street" within the meaning of sec. 150 of the Public Health Act, 1875 (38 and 39 Vic., c. 55), which the urban sanitary authority, within whose district it was situate, could compel the frontagers to pave, channel, and kerb under the provisions of that section. (*Richards* v. *Kerrick*, 57 L. J., M. C., 48; 89 L. T., 318; 52 J. P., 756, D.)

2. Buildings—Open Space at Rear of Dwelling House—Distance across to Opposite Property.

The L. Improvement Commissioners made a bye-law that every person erecting a new building for a dwelling-house should provide in the rear an open space exclusively belonging thereto, to the extent of at least 150 square feet, and should cause the distance across such open space between every such building and the opposite property at the rear to be at least 20 feet.

P. erected a new building to be used as a dwelling-house; in the rear there was a space exclusively belonging thereto of 700 square feet; the distance across such open space to the opposite houses was 52 feet, but as P.'s land was bounded by a public street, the distance from the houses of P. to the edge of the street was only 8 feet. *Held*, that on the true construction of the bye-law the public street was the opposite property, and that P. had committed a breach of the bye-law. (*Jones* v. *Parry*, 57 L. T., 492; 52 J. P., 69, D.)

3. Validity of Bye-law—Prohibition of use of Buildings unfit for Human Habitation.

An urban sanitary authority made the following bye-law under the Local Government Act, 1858 (all bye-laws made under which are deemed to be bye-laws under the Public Health Act, 1875, if not inconsistent with any of the provisions of that Act):—"No new house shall be occupied until the house drainage has been made and completed, nor until such house has been certified by the Local Board, or their officer authorised to give such certificate, after examination, to be in every respect fit for human habitation in their or his opinion" *Held*, that the bye-law was reasonable and not inconsistent with any of the provisions of the Public Health Act, 1875, and therefore valid. (*Horsell* v. *Swindon Local Board*, 58 L. T., 732; 52 J. P., 579, D.)

4. Bye-Laws—Construction and Validity—"New Street"—Width

The bye-laws of a local board provided (4) "Every person who shall lay out a new street shall so lay out such street that the width thereof shall be forty feet at the least." (6) "Every person who shall construct a new street shall provide, at one end, at least, of such street an entrance of a width equal to the width of such street, and open from the ground upwards." *Held*, that the sixth bye-law was *intra vires* and reasonable, and that it prevented a landowner from constructing a new street upon his land until he had provided an "entrance" to the new street of the specified width, even though that entrance could only be made upon the land of another person over whom he had no control. *Held* also, that the "construction" of a new street included the building of the houses abutting on it, and, consequently, that the landowner could not, until an adequate entrance had been provided, erect houses abutting on the proposed new street. (*Hendon Local Board* v. *Pounce*, 42 Ch. D. 602.)

5. Carrying Water Mains.—"Surveyor," Report of.

Section 54 of the Public Health Act, 1875, provides that where a local authority supply water they shall have the same powers for carrying water mains as they have for carrying sewers. Section 16 provides that any local authority may carry any sewer, after giving reasonable notice in writing to the owner or occupier (if on the report of the surveyor it appears necessary), into, through or under any lands within their district *Held*, that the "surveyor" is the person duly appointed surveyor under sec. 189, and no other, not even an engineer of the greatest experience whom the local authority may think fit to consult; and, further, that the "surveyor" is the person to determine on the necessity, and therefore if he exercise a *bona fide* judgment in the matter the Court will not interfere. (*Lewis* v. *Weston-super-Mare Local Board*, 40 Ch. D., 55; 58 L. J., Ch., 39; 37 W. R., 1. Sterling, J.)

REPAIRS.

Lease by Tenant for Life—Permissive Waste.

A tenant for years is liable for permissive waste, and therefore a lease under a settlement by a tenant for life under 40 & 41 Vict. c. 18, sec. 46, exempting the lessee from liabilities for "fair wear and tear and damage by tempest," is void, as "made without impeachment of waste." In granting such a lease the tenant for life has a discretion as to what are proper covenants, and the lease will be void only when there is an outrageous omission of covenants. (*Davies* v. *Davies*, [No. 2] 38 Ch., D., 499; 57 L. J. Ch, 1,093 58 L. T., 514; 36 W. R., 399 Kekewich, J.)

THE SETTLED LAND ACT, 1889.

(52 and 53 Vict., Ch. 36).

Sec. 2 provides that any building lease, and any agreement for granting building leases, under the Settled Land Act, 1882, may contain an option, to be exercised at any time within an agreed number of years not exceeding ten, for the lessee to pur-

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chase the land leased at a price fixed at the time of the making of the lease or agreement for the lease, such price to be the best which, having regard to the rent reserved, can reasonably be obtained, and to be either a fixed sum of money or such a sum of money as shall be equal to a stated number of years' purchase of the highest rent reserved by the lease or agreement.

THE TECHNICAL INSTRUCTION ACT, 1889

(52 AND 53 VICT., CH. 76).

Sec. 1 provides that a local authority may out of the local rate supply or aid in the supplying of technical or manual instruction, to such extent and on such terms as the authority think expedient, subject to certain restrictions.

Sec. 8 provides that the expression "technical instruction" shall mean instruction in the principles of science and art applicable to industries, and in the application of special branches of science and art to specific industries or employments. It shall not include teaching the practice of any trade or industry or employment, but, save as aforesaid, shall include instruction in the branches of science and art with respect to which grants are for the time being made by the Department of Science and Art, and any other form of instruction (including modern languages and commercial and agricultural subjects), which may for the time being be sanctioned by that Department by a minute laid before Parliament and made on the representation of a local authority that such a form of instruction is required by the circumstances of its district.

The expression "manual instruction" shall mean instruction in the use of tools, processes of agriculture, and modelling in clay, wood, or other material.

TRUSTEES' INVESTMENT.

1. VALUATION — MORTGAGE OF TRADE PREMISES — INSUFFICIENT SECURITY.

Trustees having a power to invest on real securities, invested £3,500 on a mortgage of a freehold brick-yard, with buildings, machinery, and plant. Before doing so they obtained a report from a competent surveyor that the property formed a good security for the amount of the advance. The report did not state, and the trustees did not enquire, what value the surveyor placed upon the property, nor how that value was arrived at. In fact the valuation was based on the brick business being carried on as a going concern, and the land was taken as worth £2,000 only. The security turned out insufficient. An action was then brought against the trustees to have the trust fund replaced. *Held*, that the trustees had not acted with proper care, and were liable to make good the loss, with interest at four per cent. (*Learoyd* v. *Whiteley*, 12 App. Cas., 727; 57 L. J., Ch., 390; 58 L. T., 93; 36 W. R., 721, H. L., E.)

2. VALUATION.

Trustees advanced trust money upon mortgage of properties consisting of an hotel and stables, and cottages and houses, which were principally let at weekly rents. Valuers were employed, and the particulars of the several properties, as furnished by the mortgagors, were submitted to them, but the trustees did not make enquiries for the purpose of verifying the statements made by the mortgagors as to the nature or value of the properties, or whether they were all let, or what was the amount of the out-goings payable. In their instructions to the valuers they told them that the mortgagees were trustees, but they did not tell them, according to the rule laid down for trustees in lending on the security of house property, that they did not desire to lend more than one half of the value. Neither did they call the attention of the valuers to circumstances which might affect the value. They also omitted to instruct the valuers to ascertain whether the particulars were correct, or what were the out-goings or average amount of repairs. In each case the valuers gave it as their opinion that a sum more than one-half of the value might be advanced on the security, and such a sum was in each case advanced. Shortly afterwards the mortgagors became insolvent. The several properties were put up for sale, but failed to realise the amounts advanced. *Held*, that the investments were improper, that the trustees had been guilty of negligence in not making enquiries as to the particulars, and in not giving proper instructions to the valuers, and in acting upon valuations which, under the circumstances, they ought not to have acted upon, and that they were jointly and severally liable for the money lost. (*Partington, in re, Partington* v. *Allen*, 57 L. T., 654, Sterling, J.)

Trustees ought not to introduce the valuer, who is valuing property with a view to mortgage by the trustees to their cestui, or the mortgagor's agent, for the purpose of negotiating the amount of the fee for the valuation. (*Ib.*)

VALUATION.

FOR COPYHOLD ENFRANCHISEMENT.

VALUATION "IMPERFECT OR ERRONEOUS"—MEANING OF THOSE WORDS.

In an arbitration under the Copyhold Acts for determining the value of the Manorial and other rights of the lord, under the 11th section of the Copyhold Act of 1887, the Land Commissioners have no jurisdiction under that section to revise the valuation, or to make a new valuation themselves upon the ground that the valuation of the arbitrator or umpire is too low; they have only jurisdiction to revise or make a new valuation themselves when the valuation is "imperfect or erroneous"; that is, "imperfect" in the sense of having something imperfect on the face of it, or "imperfect or erroneous" in the sense of not being proper in point of form, or of having taken cognisance of something which ought not to have been taken cognisance of, or of having omitted to take cognisance of something which ought to have been taken cognisance of.

If the Commissioners proceed to set aside the valuation of the umpire as being too low, and to make a new valuation themselves, a prohibition will issue against them, prohibiting them from proceeding with such valuation. (*Reg.* v. *The Land Commissioners for England, re The Enfranchisement of an Estate at Leigham, Surrey*, 23 Q. B. D., 59.)

VENDOR AND PURCHASER.

1. DAMAGES (MEASURE OF)—MISDESCRIPTION IN PARTICULARS AS TO AN APPROACH ROAD—CONDITION AS TO COMPENSATION.

Held, that the measure of compensation in the case of a misdescription as to the condition of an approach road, was the difference between the value of the property with the road as described and without it; not the cost of putting the road in the condition advertised. (*In re Chifferiel, Chifferiel* v. *Watson* [No. 2], North, J., 40 Ch., D. 45.)

2. MIS-STATEMENT OF VALUE—PROPERTY DESCRIBED AS "OF THE ESTIMATED VALUE OF £400"—COMPENSATION.

Property was described in the particulars of sale as "of the estimated annual value of £400." There was a condition entitling the purchaser to compensation if any error or mis-statement should appear to have been made in the particulars. The purchaser adduced evidence to show that the property was only worth £200 a year; he did not, however, allege that the estimate was a dishonest one. *Held*, that as the property was of the "estimated" value stated, and the estimate was admitted not to be a dishonest one, the condition did not apply, and, therefore, the purchaser was not entitled to any compensation. (*Hurlbate and Chaytor, In re*, 57 L. J., Ch., 421, North, J.)

THE WEIGHTS AND MEASURES ACT, 1889.

(52 AND 53 VICT., CH. 21.)

This Act provides for the verification and inspection of weighing instruments, and contains provisions for the sale of coal.

Sec. 6 provides that the Board of Trade shall from time to time cause such new denominations of standards for the measurement of electricity, temperature, pressure, or gravities as appear to them to be required for use for trade to be made and duly verified, and that those new denominations of standards when approved of by Her Majesty in Council shall, whether derived from imperial or from other standards, be Board of Trade standards.

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SALES OF PROPERTY.

1889.

I. LONDON & DISTRICT. II. PROVINCIAL. III. WALES. IV. SCOTLAND.

I.—LONDON AND DISTRICT.

ACTON

28 & 30, Myrtle Road, Freehold, Rent £46 per annum (A. H. Lawrence) .. £570
22 & 24, Shaftesbury Road, unexpired term 87 years, G. R. £10 (Messrs. Wilmott) .. £[illegible]
77, Park Road North, Freehold Rent £22 per annum (A. H. Lawrence) £[illegible]
73 & 75, Bolo Bridge Road, Freehold, Rent £44 per annum (A. H. Lawrence) £400
39 & 41, Stanley Road, Freehold, Rent £47 per annum (A. H. Lawrence) £380

ADELPHI.

7, York Buildings, Freehold, estimated rental £85 per annum (Thurgood & Martin) .. £1,260

ANERLEY.

Brunswick Villa, unexpired term 75 years, G. R. £12 10s. (T. May & Co.) £410

BARNET.

226 & 228, High Street, Freehold, Rent £[illegible] per annum (Fenton, Venables & Co.) £[illegible]
High Barnet 45, Wood Street, Freehold, Rent £20 per annum (J. Dawson & Sons) £405
High Barnet 12 & 2, Underhill, Freehold, Rent £[illegible] per annum (Charles & Tubbs) £1,150
201 & 203, High Street, Freehold, rent £[illegible] per annum (Fenton, Venables & Co.) £1,405

BARNSBURY.

33, Berners Villas, Freehold, estimated rental £55 per annum (Newbon & Harding) £750
6 & 7, Camden Street, unexpired term 64 years, G. R. £7, Rent £56 per annum (K. H. Lawrence) £525
16, Portland Terrace, 45 years, G. R. £[illegible] (Newbon & Harding) £110
121, Copenhagen Street, 32 years, G. R. £6 6s. (Newbon & Harding) £[illegible]
56, Ellington Street, 63 years, G. R. £8 (Newbon & Harding) .. £415

BATTERSEA

York Road, G. R. £4, reversion in 59½ years (Phillips, Lea & Davies) £120
Hibbert Street, G. R. £10, reversion in 59 years (Phillips, Lea & Davies) £450
Linda Street, G. R. £12, reversion in 59 years (Phillips, Lea & Davies) £300
Linda Street, G. R. £11 3s., reversion in 60 years (Phillips, Lea & Davies) £260
85, Ingrave Road, Freehold, Rent £45 per annum (E. Stimson) £590
24 & 26, Peveril Street, unexpired term 75 years G. R. £8, Rent £50 per annum (E. Stimson) £455
53, 55, & 57 Alfred Street, with stabling unexpired term 69 years, G. R. £7, Rent £117 per annum (H. Orchard) £750
12 & 13, Freeland Street, Freehold, Rent £41 12s. (Newbon & Harding) £455
35 & 37, Kentland Street, unexpired term 79 years G. R. £11 Rent £58 10s. per annum (G. A. Wilkinson) .. .. .. £[illegible]
236, Battersea Bridge Road, unexpired term 46 years, G. R. £11, Rent £42 10s. per annum (Wagstaff & Warman) .. £195

BAYSWATER

69, Princes Square, 63 years, G. R. £21 (Debenham, Tewson, Farmer & Brewster) .. £1,180
45, Porchester Square, 54 years, G. R. £15 (Alderton & Co.) £300
2, Palace Houses, unexpired term 25 years, G. R. £24 (Furber, Price & Furber) .. £[illegible]
83, Bloomfield Street, unexpired term 53 years, G.R. £5, estimated rental £60 (Graves & Son) £360

BELGRAVIA

South Belgravia, 50, St George's Square, unexpired term 45 years, G. R. £20 per annum (Edwin Fox & Bousfield) £1,260
33, South Eton Place, unexpired term 35 years, G.R. £9, Rent £75 per annum (M. Hubbard) £830
42, Hanover Street, unexpired term 35 years, G. R. £7 10s., Rent £52 10s. (A.G. Thomson & Co.) £485
62 & 64, Ebury Street, unexpired term 33 years G. R. £18, Rent 145 per annum (Hards & Bradle) £[illegible]

BERMONDSEY.

13 Lockwood Road, 6 years, G. R. £3 10s. [illegible] £[illegible]
Lermonsey Street, Freehold [illegible] £[illegible]
Parkhouse, Freehold Rent £4 per annum [illegible] £8 0
188, 190, & [illegible] unexpired term [illegible] £[illegible]
26, 28 & [illegible] years G. R. £14, Rent £[illegible] (Lee & Jones) £[illegible]
The Spa [illegible] Road, Freehold Rent £[illegible] per annum (Nicholson & [illegible]) £[illegible]
37, 40 & [illegible] years G. R. £[illegible] £770
260 & [illegible] unexpired term 70 years, G. R. £12 Rent £[illegible] per annum (Montagu & Rowson) £[illegible]
2, Canon Street, unexpired term [illegible] years, G. R. £2 Rent £3 10s. per annum (E. Stimson) £[illegible]

BETHNAL GREEN.

19 & 21, Collingwood Street, Copyhold (C. C. & T. Moore) £355
39 & 45 & 47, Coventry Street, Freehold (L. J. Prince) .. £[illegible]
13, 15 & 17 Winchester Street, Freehold Rent £[illegible] 14s per annum (Joyce & Evans) .. .. £[illegible]
2, 3, & 4, Southampton Street, unexpired term [illegible] years, G. R. £[illegible] per annum (Joyce & Evans) £300
42 to 50 (even), Pollards Row, Freehold, Rent £118 per annum (Glasler & Sons) £2,590
1, [illegible] Street, 11 & 13 Warner Terrace, unexpired term 29 years, G. R. £20, Rent £105 per annum (Furber, Price & Furber) £305
1, Auckland Road, Freehold, Rent £36 8s. per annum (H. J. Bliss & Sons) £410
90, Hare Street, unexpired term 58 years, G. R. £8 25s. (A. & A. Field) .. .. .. £[illegible]
119, 121, 123 & 125, Coventry Street, Freehold Rent £57 4s. (E. Brown) .. £[illegible]

BLACKFRIARS

7, 10, 11, 12 & 13, Halfield Place, unexpired term 7 years, G. R. £19 8s. 6d., Rent £104 per annum (Weston & Son) £85
46, Stamford Street, Freehold, Rent £70 per annum (G. A. Wilkinson) £1,000

BLACKHEATH.

Ulundi Road, a plot of Freehold land (W. Hixon) £100
4 & 6, Mycene Road, Freehold (F. Hards) .. £810

BLOOMSBURY

16, Ormond Yard, Freehold; 16, New North Street; and 1, Boswell Court, 24 years, G. R. £70 ([illegible] & Co.) .. .. £[illegible]
17 Silver Street, unexpired term 40 years, G. R. £8, Rent £60 per annum (Rutley, Son & Vine) £600
19, North Keppel Mews, 12½ years, G. R. £6 12s. (E. Wood) £230

BOROUGH.

75, High Street, Freehold, Rent £175 per annum (C. D. Field & Sons) £2,620
Marshalsea Road, A plot of land area 1,000 feet let for 80 years at £17 per annum (C. D. Field & Sons).

BOW.

47 Tredegar Road, Freehold (Mark Leill) £780
245, 247, & 249, Roman Road, Freehold, Rent £180 per annum (Mr. Gaiger) £2,870
104 to 110 (even), Parnel Road, unexpired term 75 years, G. R. £14, Rent £88 per annum (M. Leill) .. .. £[illegible]
150, 152, 162 & 164, [illegible] Road, [illegible] term 73 years, G. R. £15, Rent £124 per annum (C. C. & T. Moore) .. .. £[illegible]
82, [illegible] Road, unexpired term [illegible] years, G. R. £[illegible] Rent £84 per annum (E. [illegible]) £750
[illegible] Road, unexpired term 73 years, G. R. £[illegible] Rent £[illegible] £330
[illegible] Road, Freehold, estimated rental £[illegible] per annum (C. C. & T. Moore) £[illegible]
[illegible] Road, Freehold, estimated rental £[illegible] per annum (Bishop [illegible]) £450

BRIXTON.

112 & 114, Holland Road, 34 years, G. R. £10 10s. (E. Stimson) .. .. £[illegible]
60, Josephine Avenue, unexpired term 76 years, G. R. £14, Rent £90 per annum (E. Stimson) £660
174, 176 & 180, Ferndale Road, unexpired term 75 years, G. R. £15, Rent £116 per annum (Weston & Son) £835
6 to 12 (even), Baker Street, unexpired term 12 years, G. R. £8 16s. 3d., Rent £88 8s. per annum (C. & H. White) £290
44, Gresham Road, unexpired term 75 years, G. R. £[illegible] Rent £65 per annum (Reynolds & Eason) £447
57 & [illegible] Road, unexpired term 76 years, G. R. £[illegible] estimated rental £56 (E. Stimson) £500
372, Brixton Road, unexpired term 49 years, G. R. £13 10s., estimated rental £100 per annum ([illegible]) £[illegible]

BROCKLEY.

103, Manor Road, 79 years, G. R. £10 (Jenkins, Son, & Ellis) .. .. .. £[illegible]
[illegible] Rent of £5, reversion in 86 years (Graves & Son) .. .. .. £[illegible]

BROMLEY.

[illegible], Row, [illegible] Rent of £25 per annum 64 years (Jones, Lang & Co.) .. £590
12, Rounton Road, unexpired term 73 years, G. R. £3 15s., Rent £30 per annum (C. C. & T. Moore) £210

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8 & 9, Prospect Place, unexpired term 80 years, G. R. £10 (Fuller & Fuller) .. £60
Bromley-by-Bow, 101, 103 & 105, Marner Street, Freehold, Rent £46 16s. per annum (T. Woods) £310

BROMPTON

152 & 154, Walton Street, Freehold, Rent £189 16s. per annum (Messrs. C[illegible]) £1,750
302, [illegible] unexpired term [illegible] years, G. R. £[illegible], Rent £[illegible] per annum (Newbon & H[illegible]) £750
West Brompton, 7, Mer[illegible] Road, unexpired term 68 years, G. R. £9, Rent £35 per annum (Rogers, Chapman & Thomas) £340

BROOK GREEN.

6, Dewhurst Road, 92 years, G. R. £3 (T. Turner) £485

CAMBERWELL.

145, Southampton Street, Freehold (Phillips, Lea & [illegible]) £500
Southampton Street, G. R. of £6, reversion in 5[illegible] years (Phillips, Lea & Da[illegible]) £[illegible]10
121, 123 & 125, Neate Street, and 1 & 3, Hearing [illegible], Freehold, [illegible] (£17, [illegible] & H. W[illegible]) £3,310
36 [illegible] Street, unexpired term [illegible] years, G. R. £26 5s., Rent £109 per annum (E. Wood) .. .. .. £4[illegible]5
245, 247 & 249, Camberwell Road, Freehold (Farebrother, Elias, Clark & Co.) .. £2,100

CAMDEN TOWN

8, Miller Street, 10 years, G. R. £3 10s. (Driver & Perfect) £80
Ground rent of £5, reversion in 12½ years (Vaughan & Co.) £375
184, Camden Road, term 48 years, G. R. £6 (A. Booth) £885
Camden Road, 16, Parkhurst Road, unexpired term 65 years, G. R. £6 6s., Rent £90 per annum (Debenham, Tewson, Farmer & Bridgewater) £900
45 & 47, Georgiana Street, unexpired term 51 years, G. R. £16, Rent £72 (Debenham, Tewson, Farmer & Bridgewater) £720
120 & 122, Camden Road, unexpired term 35 years, G. R. £4, Rent £120 per annum (A. Chancellor) £1,120
47, James Street, unexpired term 88 years, G. R. £5, Rent £32 per annum (Newbon & Harding) £370

CANNING TOWN.

178, Barking Road, and goodwill, term 18 years (F. Joly & Co.) £100

CANONBURY.

38, Northampton Street, 28 years, G. R. £4 (G. [illegible] & Sons) £275
4 Lennox Road, unexpired term 6[illegible] years G. R. £[illegible], Rent £[illegible] per annum (Rayn[illegible] & Lason) £360
19 Gra[illegible] Road, unexpired term 47 years, G. R. £9, Rent £7 10s. per annum (Newbon & Harding) .. £640

CAVENDISH SQUARE.

Lease, furniture, &c., of 24, Welbeck Street, term 4½ years (Maddox & Son) £280
72 Margaret Street, unexpired term 55 years, G. R. £20, Rent £130 per annum (Inman, Sharp, Harrington, & Roberts) £1,330

CHELSEA

21, Marlborough Square, and 60 and 60a, Cale Street, unexpired term 20 years, Rent £50 per annum (Rushworth & Stevens) .. £630
111, Sydney Street, 20 years, G. R. £12 (Henry & Latchford) £630
36, Cheyne Row, Freehold, with possession (W. B. Hallett) £3,300
Lamont Road, unexpired term 55 years, G. R. £7, estimated rental £42 per annum (E. [illegible]) £[illegible]90
32 & 33, Stanford Road, unexpired term 93 years, G. R. £8, Rent £67 12s. per annum (Wagstaff & Warman) £390
64, Beaufort Street, unexpired term 26 years, G. R. £4, estimated rental £30 per annum (J. Freyberg) £250

CHISWICK.

Heathfield and Burlington Cottages, Freehold, Rent £180 per annum (Wallis, Riddett & Down) £3,350

CLAPHAM.

11, 12 & 13, Alfred Street, and plot of land, Copyhold (C. & H. White) £750
"Lynton House," with grounds, Freehold (W. W. Jenkinson) £6,600
52, 55 & 57, Old Town, Freehold, Rent £145 per annum (H. H[illegible] & Son) £[illegible],030
53 to 59 (odd), Solon New Road, unexpired term 90 years, G. R. £20 (Newbon & Harding) £[illegible]
31, 33 & 48, Solon New Road, unexpired term 90 years, G. R. £18 18s., estimated rental £96 per annum (D. Young) £590

CLAPTON.

28, Thistlewaite Road, 94 years, G. R. £6 6s. (J. Wood) £[illegible]5
Lower Clapton, 125 to 131 (odd), Powerscroft Road, unexpired term 86 years, G. R. £20, Rent £100 per annum (J. Baker & Sons) .. £775
Upper Clapton, 47, Clapton Common, Freehold, estimated rental £55 per annum (Glasier & Sons) £500
46, Powell Road, Freehold, Rent £37 per annum (H. A. Henderson) .. £460
24, Clapton Common, Champion House, Freehold, estimated rental £130 per annum (Glasier & Sons) £1,470
Upper Clapton, 38, Beechholme Road, unexpired term 89 years, G. R. £6 6s. (Wells & Read) £220

CLERKENWELL.

129 & 131, King's Cross Road, 52 years, G. R. £15 (Inman, Sharp, Harrington & Roberts) £940
Leasehold G. R. of £40, unexpired term 92 years (F. Samson) .. £470
43, Exmouth Street, unexpired term 26 years, G. R. £7, Rent £50 per annum (Humbert, Son & Flint) £500
48 & 49, Clerkenwell Close, Freehold, Rent £56 per annum (Newbon & Harding) .. £800
21 & 22, St. John's Square, Freehold, Rent £170 per annum (Moss & Jameson) £3,400

COMMERCIAL ROAD.

10 & 12, West Arbour Street, unexpired term 30 years, G. R. £6, Rent £42 per annum (A. & A. Field) £480
64 to 70 (even), Bromley Street, unexpired term 18 years, G. R. £10, Rent £37 10s. (Reynolds & Eason) £220
321 & 323, and 2 and 4, Bromehead Street, unexpired term 46 years, G. R. £60, Rent £158 per annum (C. C. & T. Moore) .. £750
45, Clarke Street, unexpired term 11 years, G. R. £4, Rent £24 (Newbon & Harding) .. £140

CITY.

162a, Queen Victoria Street, 97 years, G. R. £710 (Jones, Lang & Co.) £4,950
Aldersgate Street & Jewin Street, a plot of land, area 1,864 feet, let for 80 years at £460 a year. (R. Re[illegible]d) .. .. £[illegible]
Freehold G. R. of £187 per annum arising out of 13 & 15, Moor Lane (Charles & Tubbs) .. £4,625
18, 19 & 20, Noble Street, & 14 & 15, Silver Street, Freehold area, 7,400 ft. (E. Millard) .. £27,000
Fenchurch Street, G. R. of £367, reversion in 28 years (Baker & Sons) £14,600
Aldermanbury, No. 31, Freehold; G. R. of £130 per annum, reversion in 37 years (Murrell & Scobe[illegible]) £4,230
City Road, 19 & 20, Nelson Terrace, 26 years, G. R. £7 (Newbon & Harding) £265
10 & 12, Bishopsgate Avenue, unexpired term 64 years, G. R. £85 each, Rent £295 (Baker & Sons) £720
1, 2 & 3, Newberry street, & 12 Kinghorn Street, Freehold, Rent £60 per an. (G. F. Flower) £2,010
2, Bartholomew Close, Freehold, Rent £65 per annum (Norton, Trist & Gilbert) .. £1,820
City Road, 103, East Road, unexpired term 58 years, G. R. £12 10s., Rent £65 per annum (Eves & Son) £700
3, Union Court, Freehold, area 830 feet (Debenham, Tewson, Farmer & Bridgewater) .. £1,[illegible]
36, Fenchurch Street, unexpired term 30 years, G. R. £310, Rent £1,526 per annum (Driver & Co.) £8,000
21, Milk Street, unexpired term 29 years, G. R. £70, Rent £870 per annum (Brown, Roberts & Rawlins) £7,500
St. Swithins Lane, The letting of 3,160 feet of land, on lease for 80 years, £1,500 per annum (D. South, Son & Oakley)
71, Farringdon Street, Freehold, Rent £90 per annum (Glasier & Sons) £1,900
74 & 75, Fore Street, unexpired term 78 years, G. R. £254 14s., Rent £452 12s. per annum (Charles & Tubbs) £1,000

CROUCH END.

36, Crouch End Hill, unexpired term 71 years, G. R. £13, Rent £50 per annum (Newbon & Harding) £475

DALSTON.

34, Lansdown Road, 57 years, G. R. £5 (E. Holsworth) £360
10 & 11, Clifton Grove, unexpired term 62 years, G. R. £10, Rent £66 per annum (R. Tidey & Son) £550
32, Greenwood Road, unexpired term 63 years, G. R. £7, estimated rental £48 per annum (J. Joly & Co.) £[illegible]
DENMARK HILL.

Olive Terrace, Improved G. R. of £6 7s., term 93 years (D. Young) .. .. £[illegible]

DEPTFORD.

Two Freehold Cottages, 49 & 51, Regent Street, High Street (W. J. Newell) £295
45, Shere Road, held for a term of 81 years from 1866, G. R. £2 2s. per annum, let at £26 per annum £225
61 & 62, Wotton Road, let at rentals amounting to £65 per annum, held for 81 years from 1865, at £4 10s. per ann. G. R. for the two houses £530
20 Hyde Street, unexpired term 27 years, G. R. £2 8s., estimated rental £24 (J. M. Klenck & Co.) £120
Canterbury Road, Freehold, G. R. of £38 15s., with reversion in 77 years (C. C. & T. Moore) £870

LONDON DOCKS, E.

24, 26, & 28, Dock Street, Freehold (Debenham, Tewson, Farmer, & Bridgewater) .. £830

DRURY LANE.

24, Parker Street, Freehold, Rent £55 per annum (Broad & Wiltshire) £1,200

DULWICH.

116, Crystal Palace Road, unexpired term 76 years, G. R. £5, estimated rental £26 per annum (F. [illegible]) £[illegible]
69, Melbourne Grove, unexpired term 81 years, G. R. £7, Rent £36 per annum (H. Hooper) £395
3, Crystal Palace Road, unexpired term 67 years, G. R. £4 4s. (Cane & Co.) £255
11 & 13, Ferris Road, unexpired term 87 years, G. R. £12 12s., estimated rental £54 (Cane & Co.) £465
Dulwich, West [illegible] Chancellor Ro[illegible] Freehold estimated rental £34 per annum (F. Perks) £320

EALING.

8, Sandringham Gardens, unexpired term 75 years G. R. £10 (Hampton & Sons) £[illegible]
1 to 4, Western Road, Brick, re[illegible] term 7[illegible] years G. R. £6, Rent £[illegible] per annum (Per[illegible] & Lucy) £[illegible]5
1 & 15, Oxford Road, unexpired term [illegible] years G. R. £14, Rent £[illegible] per annum (F[illegible] & Cra[illegible]) £740
21, Argyle Road, unexpired term 80 years, G. R. £8 10s., Rent £45 per annum (Messrs. Wilmott) £350
The residence, "Blytheholme," unexpired term 80 years, G. R. £6 5s., estimated rental £4[illegible] (T. C. King) £[illegible]
"Rose Lodge," Freehold, Rent £36 per annum (T. C. King) £500

EATON SQUARE

45, frontage of 27 feet, 28 years, G. R. £60 per annum (G. Goldsmith, Son & Co.) .. £4,400
10, Gerald Road, unexpired term 34 years, G. R. £8, Rent £65 per annum (Messrs Foster) £[illegible]00

EDMONTON

12 & 14, Upper Fore Street, Freehold, Rent £46 per annum (A. Richards) £530
1 to 7, Eaton Place, Freehold, Rent £46 16s. (A. Richards) £170

EUSTON.

Euston Square—42, Gower Place, 18 years, G. R. £6 (H. Rutley, Son & Vine) .. £380
Euston Road—56, Burton Street, 16 years, G. R. £21 (H. Rutley, Son & Vine) £200
Euston Road—26 & 27, Thanet Street, unexpired term, 17 years, G. R. £14, Rent £68 per annum (H. Rutley, Son & Vine) .. £295
164, Euston Road, unexpired term 18 years, G. R. £26 5s., Rent £80 per annum (Humbert, Son & Flint) .. .. £[illegible]00

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FINCHLEY (EAST)

4, Torring Terrace, 65 years, G.R. £2 12s. (Newbon & Hard, 8) .. £310

FINCHLEY (NORTH).

House and Shop, 7, High Street, for a term of 99 years from September, 1868, G. R. £8. The property produces £45 per annum. (S. Dorman, Junior) .. £400

FINSBURY.

99, Paul Street, unexpired term 22 years, G. R £7 4s., Rent £42 per annum (Phillips, Lea, & Davies) .. £[illegible]

FINSBURY PARK.

10 & 12, Campbell Road, 77 years, G. R. £9 (Driver & Perfect) .. £215
4, Oakfield Road, unexpired term, 87 years, G. R. £8 8s., estimated rental £50 per annum (Ball, Norris, & Hadley) .. £435
2, Plimsoll Road, unexpired term, 80 years, G. R. £5 10s., Rent £30 per annum (E. Wood) .. £[illegible]
7 & 9, Brownswood Road, unexpired term 86 years, G.R. £14, estimated rental £80 (P. Hodson) £745

FOREST GATE.

42, Beaconsfield Terrace, 87 years, G. R. £10 10s. (C. C. & T. Moore) .. £150
Clova Road, Phœbe Villa, Freehold (M. Leill) £465
Margaret, Elizabeth, and Sarah Villas, Freehold (M. Leill) .. £1,365
9 Odessa Road, estimated rental £26 per annum (J. Holsworth) .. £300

FOREST HILL.

Vancouver Road—St. Erney, unexpired term 97 years, G. R. £5 10s., Rent £35 per annum (T. G. Wharton) .. £220
Stanstead Road, two Villas, estimated rental £78 per annum (Walker & Runtz) .. £620

FULHAM.

41 & 45, Musard Road, Freehold (J. C. Platt) £500
Freehold Ground Rents amounting to £106 14s. per annum, secured on 23 Houses and two Shops, sold for amount equal to 22¾ years' purchase (Messrs Woods)
2, Palace Terrace, unexpired term 96 years, G.R. £7 10s., Rent £36 per annum (Ball, Norris, and Hadley) .. £395

GRAYS INN ROAD

Elm Street, a plot of Freehold land, area 20,760 feet (Walker & Runtz) .. £5,700
1 & 2, Phœnix Place, unexpired term 22 years, G. R. £10, Rent £52 per annum (Rutley, Son & Vine) .. £335

GREENWICH.

Ground Rent of £40, reversion in 18 years (F. Hards) .. £820

HACKNEY.

Hackney Road—128, 130, 136 & 138, Columbia Road, 37 years, G. R. £21 (Newbon & Harding) .. £690
65, Eleanor Road, 57 years, G. R. £3 5s. (H. Scruton) .. £250
40, Victoria Park Road, unexpired term 42 years, G. R. 10s., Rent £37 per annum (R. Tidey & Son) .. £370
235, Dalston Lane, unexpired term 50 years, G. R. £4 16s. (Furber, Price & Furber) .. £290
South Hackney—78, King Edward Rd., unexpired term 49 years, G.R. £10, estimated rental £80 per annum (Reynolds & Eason) .. £750
39 & 41, York Street, unexpired term 35 years, G. R. £5 12s., Rent £48 per annum (T. Champness) .. £385
Sutton Place, a plot of Freehold land (Vaughan & Co.) .. £160
South Hackney—6, Speldhurst Road, unexpired term 53 years, G. R. £5, Rent £33 per annum (C. C. & T. Moore) .. £270

HADLEY.

The Reservoir, Hadley Cote Freehold, Rent £[illegible] per annum (Prickett Vernables & Co.) £650
171 & 173, High Street, Freehold, Rent £12 10s. per annum (Prickett Vernables & Co.) £4[illegible]
"The Lanes," Freehold Rent £120 per annum (Prickett Vernables & Co.) £1,[illegible]
1 & 2, Clyde Villas Freehold, Rent £[illegible] per annum (Prickett Vernables & Co.) £1,[illegible]

HAGGERSTON.

47, Lee Street, unexpired term 30 years, G.R. £3, Rent £26 12s. per annum (Boyce & Evens) £220
9, Nelson Terrace, 51 years, G. R. £4 (E. Holsworth) .. £365
39, Fellows Street, unexpired term 16 years, G. R. £2, Rent £32 10s. per annum (Boyce & Evens) .. £125

HAMMERSMITH.

Hammersmith Road, a plots of land, frontage 40 feet, let at £38 per ann. (Ball, Norris & Hadley)
Wolverton Street, 19 plots of land containing an area of 33,287 ft, 80 years lease, £135 17s. 6d. per annum (Ball, Norris & Hadley)
18, Mansion House Street, unexpired term 75 years, G. R. £4, Rent £26 per annum (A. Richards) .. £335
28 & 30, Studland Street, unexpired term 75 years, G. R. £8, Rent £60 per annum (Newbon & Harding) .. £575

HAMPSTEAD.

Hampstead Road—22, Robert Street, 34 years, G. R. £10 (Vaughan & Co.) .. £735
47, Robert Street, 32 years, G. R. £7 7s. (Vaughan & Co.) .. £650
64, Arlington Road, 11 years, G. R. £2 (Vaughan & Co.) .. £300
Hampstead Road—7, Rossland Street, unexpired term 35 years, G.R. £[illegible], Rent £55 (Rutley, Son & Vine) .. £485
Stanley Gardens—Stanley House, unexpired term 74 years, G. R. £22 10s., estimated rental £120 per annum (Baker & Sons) .. £550
The "Hare and Hounds" Public-house, Freehold Rent £60 per annum (Vaughan & Co.) .. £1,060
West Hampstead—12 & 14, Achilles Road, unexpired term 95 years, G. R. £10 18s., estimated rental £72 (H. W. Iles) .. £740
Hampstead Road—52 & 54, Little George Street, and 1, Little Exmouth Street, unexpired term 21 years, G. R. £14, Rent £85 per annum (W. A. Blakemore) .. £490
64, Fleet Road, unexpired term 61 years, G. R. £7, estimated rental £38 per annum (Rutley, Son & Vine) .. £280
Hampstead Road—[illegible] Edward Street, unexpired term 32 years, G. R. £11, Rent £70 (Vaughan & Co.) .. £600

HANOVER SQUARE.

14, Princes Street, Freehold, Rent £225 per annum (Turner Rudge & Turner) .. £3,050

HANWELL.

1 to 5, Clifton Villas, Freehold, Rent £89 per annum (Baker & Sons) .. £790

HATCHAM.

10, 12 & 14, Manor Grove, unexpired term 970 years, no G. R., Rent £66 (H. J. Bromley) £525

HATTON GARDEN.

11, Cross Street, Freehold, and the "Three Tuns" Public-house, Freehold, Rent £198 per annum (D. Smith, Son & Oakley) .. £3,540

HAVERSTOCK HILL.

109, Queen's Crescent, unexpired term 62 years, G. R. £7, Rent £40 per annum (Debenham, Tewson, Farmer & Bridgewater) .. £365
95, Haverstock Hill, unexpired term 48 years, no G.R., estimated rental £40 per annum (Rutley, Son & Vine) .. £370
10 & 11, Oakfield Crescent, Freehold, Rent £60 per annum (W. Hall) .. £735
The Lawn, unexpired term 34 years, G.R. £16 8s., Rent £80 (Arber, Rutter & Waghorn) .. £700
113, Mansfield Road, unexpired term 63 years, G. R. £6 15s., estimated rental £45 (J. J. Deverell & Co.) .. £330

HAYMARKET.

18, Oxenden Street, Freehold, Rent £78 15s. per annum (N. W. Robinson) .. £1,500

HIGHBURY

244, St. Paul's Road, 62 years, G. R. £10 (E. Holsworth) .. £350
9, Highbury New Park, unexpired term 60 years, G. R. £15, estimated rental £100 per annum (Newbon & Harding) .. £860
13, Hamilton Road, unexpired term 58 years, G. R. £7, Rent £34 per annum (Wagstaff & Warman) .. £[illegible]
21, Leconfield Road unexpired term 60 years, G.R £5 10s., Rent £32 (Newbon & Harding) .. £[illegible]

HIGHGATE

"Dartmouth Tower," 81, Dartmouth Park Hill, 63 years, G. R. £10 (Debenham, Tewson, Farmer & Bridgewater) .. £1,[illegible]
31, Highgate Hill, unexpired term 48 years, G. R. £6, Rent £80 per annum (Rutley, Son & Vine) £700

HOLBORN.

29, Kingsgate Street, unexpired term 53 years, G. R. £30, Rent £157 per annum (Elliott, Son & Boyton) .. £770
20, Brooke Street, Freehold, Rent £45 per annum (Weatherall & Green) .. £700

HOLLOWAY.

78 & 80, George's Road, Freehold (C. C. & T. Moore) .. £400
18, Ward Road, 67 years, G.R. £6 (W. B. Hallett) £300
9, Hollingsworth Street, unexpired term 55 years, G.R. £6, Rent £34 per ann. (S. Pearce & Sons) £275
56a, Durham Road, unexpired term 87 years, G.R. £8 10s., Rent £40 per annum (W. W. Jenkinson) £390
6, Ingleby Road, unexpired term 60 years, G. R. £6, Rent £36 per annum (Dennant & Co.) £[illegible]
1, Anatola Road, and 32, Girdleston Road, Freehold, Rent £60 per ann. (Newbon & Harding) £640
14 & 16, Hope Street, Freehold, Rent £43 4s. per annum (Newbon & Harding) .. £420
137, 139 & 141, Blackstock Road, unexpired term 77 years, G. R. £18 18s., Rent £102 per annum (Newbon & Harding) .. £640
30, Durham Road, unexpired term 68 years, no G. R., Rent £70 per annum .. £625
534 & 536, Caledonian Road, unexpired term 52 years, G.R. £2, Rent £118 per annum (Newbon & Harding) .. £1,180
21 & 23, Scholefield Road, unexpired term 65 years, G. R. £10 (R. H. Evans) .. £195
4, Tufnell Park Road, unexpired term 33 years, G. R. £10 10s., estimated rental £60 per annum (Newbon & Harding) .. £500
11, Arthur Road, unexpired term 53 years, G R. £6 3s. 4d., estimated rental £45 per annum (Glover & Harrison) .. £320

HOMERTON.

25, High Street, and 9 to 16, Janes Place, Freehold, and 1 to 8, Janes Place, unexpired term 48 years, ground rents £24 (Coleman & Co.) £1,025
55 to 67 (odd), High Street, Freehold, Rent £283 per annum (Hobson, Richards & Co.) .. £2,060
90, 92 & 94, Hassett Rd., unexpired term 70 years, G. R. £12 12s. (Newbon & Harding) .. £625

HORNSEY.

Hornsey Rise, The Railway Hotel, 76 years, G.R. £50 (Wagstaff & Warman) .. £910
20, 22, 24 & 26, Sunnyside Road, Freehold, Rent £138 per annum (Collins & Collins) .. £600
27, Harvist Road, unexpired term 53 years, G R £6 10s., estimated rental £34 per annum (P. Housden) .. £250
202, Turnpike Lane, unexpired term 88 years, G.R. £8 10s., Rent £40 per annum (Newbon & Harding) .. £320
21, 23 & 58, Marcellus Road, unexpired term 91 years, G. R. £15 (Newbon & Harding) .. £420

HOXTON.

3, Napier Street, 23 years, G. R. £2 10s. (Newbon & Harding) .. £139
11, Napier Street, 16 years, G. R. £3 (Newbon & Harding) .. £165
5, Shaftesbury Street, 8 years, G. R. £2 10s. (E. Holsworth) .. £100
25 to 33, Newton Street, 47 years, G. R. £[illegible] (Boyce & Evans) .. £2,665
108, 110, & 112, Hoxton Street, 80 years, G.R. £72 (Boyce & Evans) .. £1,595
13 to 21 (odd), Hansworth Street, 60 years, G. R. £21 (Boyce & Evans) .. £810
14, 16 & 18, Alma Street, 40 years, G. R. £15 (Boyce & Evans) .. £1,035
38 & 39, Moneyer Street, and 1, Matson Street, unexpired term 17 years, G. R. £7 15s., Rent £63 14s. per annum (Newbon & Harding) .. £135
28 to 32, Charles Square, and 2, Leverington Place, Freehold, Rent £150 per annum (Newbon & Harding) .. £2,130
227, New North Road, and 12, Arlington Street, unexpired term 13 years, G. R. £6 6s., Rent £70 per annum (Rutley, Son & Vine) .. £685
18, Branch Place, Freehold, Rent £21 per annum (Debenham, Tewson, Farmer & Bridgewater) £240

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HYDE PARK

30, Hyde Park Gate, and stabling, 49 years, G. R. £21 (Driver & Co.) £7,250
36, Ennismore Gardens, unexpired term 26½ years, G.R. £20, Rent £160 per annum (R. Reid) £1,700
21, Pembridge Square, Freehold, Rent £350 per annum (Elliott, Son & Boyton) £7,400

ISLINGTON.

116 Barnsbury Road, 32 years, G. R. £6 (Newbon & Harding) £[illegible]
193 Liverpool Road, 13 years G. R. £7 (Newbon & Harding) .. .. £[illegible]
10, Liverpool Street, 33 years, G. R. £6 15s. (C. C. & T. Moore) £240
67, Copenhagen Street, 32, years, G. R. £6 6s. (R. H. Evans).. .. .. £325
153, Southgate Road, unexpired term 42 years, G. R. £5, Rent £44 per annum (R. Tidey & Son) £425
146, Barnsbury Road, unexpired term 34 years, G. R. £9, estimated rental £45 per annum (Newbon & Harding) £330
53, St. Peter's Street, 56 years, G. R. £6, Rent £40 per annum (H. J. Bliss & Sons) . £295
Improved Ground Rent of £170, unexpired term 19 years, at a G. R. of £14 per annum (E. Millard) .. . . . . £1,[illegible]
124, Barnsbury Road, unexpired term 30 years, G. R. £6 (Newbon & Harding) . .. £300
25, Prebend Street, unexpired term 37 years, G. R. £4 4s., Rent £30 (R. Tidey & Son) .. £205
49, Packington Street, unexpired term 47 years, G. R. £6 6s., Rent £50 (Newbon & Harding) £400
26, Compton Terrace, unexpired term 28 years, G. R. £10, Rent £84 per annum (Hobson, Richards & C.) £[illegible]
67, 68, & 69, Roman Road unexpired term 69 years, G. R. £16, Rent £98 per annum (Benningfield & Tidey) £925
47, Orchard Street, unexpired term 30 years, G. R. £2 10s., Rent £23 8s. per annum (Newbon & Harding) .. £[illegible]60

KENNINGTON

11 to 16, Fairford Grove, unexpired term 41 years, G. R. £30, Rent £[illegible] 4s. per annum (E. Stimson) £1,490
16 to 22 (even), Smith Street, Freehold, Rent £[illegible] 4s. per annum (Harland & Son) . .. £905
182, Kennington Park Road, Copyhold, Rent £50 per annum (G. A. Wilkinson) £550

KENSINGTON.

33, Gloucester Road, unexpired term 61 years, G. R. £15, Rent £250 per annum (Baker & Sons) £[illegible]800
22 to 30 (even), Gordon Place, unexpired term 83 years, G. R. £75, Rent £435 per annum (Debenham, Tewson, Farmer & Bridgewater) £4,280
North Kensington—10 to 26 (even) & 18, St. Lawrence Road, unexpired term 75 years G. R. £40, estimated rental £275 per annum (Messrs. Foster) .. .. £1,[illegible]00
South Kensington—39, Eardley Crescent, 77 years, G. R. £8, Rent £60 per annum (Messrs. Foster) £690
18 to 24 (even), Kempsford Gardens, unexpired term 77 years, G. R. £24, Rent £200 per annum £2,025
West Kensington—36, Westwick Gardens, Freehold estimated rental £50 per annum (Green & Son) £530
West Kensington—19, Wharton Road, Freehold, Rent £45 per annum (Nokes & Nokes) £600
19, Castletown Road, 87 years, G. R. £14 (W. R. Nicholas) £570
6 & 28, Vereker Road, 93 years, G. R. £20 (Rogers, Chapman & Thomas) £1,125
34, Talgarth Road, unexpired term 87 years, G. R. £10 10s., Rent £55 (Rogers, Chapman & Thomas) £300
Two Leasehold residences, 45 & 47 Earl's Court Square, unexpired term 84 years, G. Rts. £68 per annum, combined rentals £928 (Fowler & Pemberton) £2,000
9, Pitt Street, unexpired term 54 years, G. R. £[illegible] 6d., Rent £85 per annum (F. & H. Lun[illegible]) £1,250
North Kensington—1, 3, & 5, Adair Road, unexpired term 76 years, G. R. £41, Rent £401 (T. C. King) £755

KENTISH TOWN

50, Willes Road, 22 years, G. R. £5 (Driver & Perfect) .. .. £[illegible]00
30, Torbay Street, 49 years, G. R. £6 (A. Booth) £[illegible]
35 & 36, Alma Street, unexpired term 35 years G. R. £10, Rent £60 per annum (Boreham & Reeves) .. . . . £[illegible]

LESSNESS-HEATH

37 & 38, Woolwich Road, Freehold (F. J. Bisley) £370
39 & 40, Woolwich Road, Freehold (F. J. Bisley) £385
41 & 42, Woolwich Road, Freehold (F. J. Bisley) £455
Ground rent of £4, reversion in 63 years (F. J. Bisley) £120
Ground rent of £5 reversion in 63 years (F. J. Bisley) .. £120

LEWISHAM

26 & 27, Horton Street, 74 years, G. R. £13 (F. Hards) £420
21 Jerrard Street, 74 years, G. R. £2 10s. (F. Hards) . . .. £[illegible]95
47 Hither Green Lane, 77 years, G. R. £8 18s. (F. Hards) .. .. £[illegible]
14 & 15, Thurston Road, 74 years, G. R. £4 [illegible] (F. Hards) £452
Leasehold residence, Haverstock Villa, Slaithwaite Road (Glover & Harrison) £539
St. Helens, Slaithwaite Road (Glover & Harrison) £490
6, Limes Grove, 21 years, G. R. £1 (Dyer, Son & Hilton) £180
The "Ladywell Tavern," in Ladywell Road, with stabling and a cottage in the rear, Freehold (W. J. Newell) £3,960
63 to 66, Thurston Road, unexpired term 73 years, G. R. £10, Rent £89 per annum (Ellis & Son) £815

LIMEHOUSE.

10 & 11, Taylors Place, 34 years, G. R. £7 (C. C. & T. Moore) £735
3, 4, 4, Rhodeswell Road, 37 years, G. R. £15 (W. Howard) £410
63, 65 & 67, Salmon's Lane, Copyhold (Giddy & Turner) £2,000
West India Dock Road, 29 & 31, unexpired term 8½ years, G. R. £10 per annum, Rent £45 (A. Richards) £180
1, St. Anne Street, and 148, Eastfield Street, unexpired term 33 years, G. R. £6 10s., Rent £27 6s. per annum (Newbon & Harding) £100
35, Ropemaker's Fields, Freehold, Rent £22 2s. per annum (Jones & Son) £170

MAIDA HILL.

147, Carlisle Street, 33 years, G. R. £2 10s. (E. Stimson) £380
96, Portsdown Road, unexpired term 61 years, G. R. £20, Rent £70 per annum (Debenham, Tewson, Farmer & Bridgewater) £450

MAIDA VALE.

35, Lanark Villas, unexpired term 60 years, G. R. £10, Rent £48 per annum (Rutley, Son & Vine) £480
16, Randolph Crescent, unexpired term 78 years, G. R. £24, Rent £160 per annum (Weatherall & Green) £1,660
8, Randolph Crescent, unexpired term 78 years, G. R. £18, estimated rental £120 per annum (Weatherall & Green) . £1,000

MANOR PARK.

3 to 9, Elizabeth Terrace, 96 years, G. R. £4 (Protheroe & Morris) £560

MARYLEBONE.

6 & 7, Upper Bridport Street, 20 years, G. R. £5 5s. (H. C. Newson) £355
95, Bolsover Street, 35 years, G. R. £16 (E. Stimson) £1,010
60, Bolsover Street, 25 years, G. R. £10 . £335
33, Crawford Street, 18 years, G. R. £21 (Wagstaff & Warman) £500
Rental of £89 per annum, 25 years (Woods & Snelling) £1,160
32, Upper Baker Street, 12 years, G. R. £7 7s. (R. J. Collier) £600
19, Upper Montague Street, 18 years, G. R. £10 10s (R. J. Collier) £560
72 & 74, Richmond Street, 33 years, G. R. £16 (W. Holcombe) £380
21, Saville Street, 30 years, G. R. £12 a year, let in tenements at rentals amounting to £182 12s. per annum (Bell, Pearce & Bridge) £1,070
150, Marylebone Road, and 21, Alsop Mews, unexpired term 32 years, G. R. £20, Rent £125 per annum (E. Minard) £950
141 & 147, Marylebone Road, and stabling, Freehold Rent £160 per annum (R. Reid) . .. £2,290

MILDMAY PARK

7 & 9, Jude Street, 44 years, G. R. £8 (J. Hodges) £460
53, Queen Margaret's Grove, unexpired term 69 years, G. R. £4 12s., Rent £41 12s. per annum (Wagstaff & Warman) .. £268

NORWOOD

The residence called "Spring Bank," unexpired term 68 years, G. R. £6 6s. 8d. (Walford & Wilshin) £400
West Norwood, Freehold Ground Rents amounting to £179 12s. per annum, secured upon 22 houses in Thornlow Road, at 26 years' purchase (Atkins & Atkins).
Upper Norwood, 63, Belvedere Road, Freehold, Rent £35 per annum (Mansell & Rowe) £430
Lower Norwood, 15 to 25 (odd), Birchanger Road, Freehold, Rent £165 per annum (Messrs. Woods) . £1,460

NOTTING-HILL

313, Portobello Road, 74 years, G. R. £8 (Messrs. Wixon) £420
117 & 119, Clarendon Road, 48 years, G. R. £16 (G. Goldsmith, Son & Co.) .. . £550
185, Lancaster Road, unexpired term 72 years, G. R. £7, Rent £44 4s. per annum (Weatherall & Green) £200
70, Portland Road, 60 years, G. R. £8, Rent £74 per annum (T. Turner) £280
192 & 194, Kensington Park Road, unexpired term 71 years, G. R. £16, Rent £75 per annum (Jones, Lang & Co.) £400

OLD FORD ROAD.

438, The Gunmakers' Arms, beer-house, Freehold (C. C. & T. Moore) £970
Usher Road, G. R. of £2 18s. 6d., reversion in 65 years (Phillips, Lea, & Davies) .. £75
146 (even), Armagh Road, unexpired term 71 years, G. R. £18 18s., Rent £156 per annum (Walker & Runtz) . .. . £[illegible]00
148, Armagh Road, Freehold, Rent £[illegible] per annum (Reynolds & Mason) .. .. .. £[illegible]60
142, 144, & 146, Usher Road, Freehold, Rent £93 12s per annum £810

OLD KENT ROAD

643 & 645, unexpired term 17 years, G. R. £3 15s., Rent £48 per annum (Western and Son) £550
28 & 30, Mawbey Road, unexpired term 29 years, G. R. £6 12s., Rent £65 per an. (E. Stimson) £230

OXFORD STREET.

19, Castle Street, unexpired term 58 years, G. R. £18, Rent £110 per annum (Elliott, Son & Boyton) £1,360
18, Argyll Street, The Argyll Restaurant, Freehold, Rent £200 per annum (Rushworth & Stevens) . .. . . £[illegible]
1 & 5, Poland Street, Freehold, Rent £480 per annum (S. B. Clark & Son) £[illegible]

PADDINGTON.

Leasehold Residence, 13, Clarendon Gardens (Glover & Harrison) £510
11 & 12, Bathurst Street, unexpired term 46 years, no G. R., Rent £220 per annum (Boreham & Reeves) £3,110
90, Woodchester Street, unexpired term 63 years, G. R. £5, Rent £40 per annum (W. Hall) £450
9, Chepstow Villas, Freehold, Rent £60 per annum (Phillips, Son & Neale) £1,030
33, Hampden Street, unexpired term 35 years, G. R. £5, Rent £32 (Newbon & Harding) £245

PECKHAM.

1, Adys Road, 85 years, G. R. £5 10s. (Toplis & Harding) £200
7 & 8, Beaufort Terrace, 46 years, G. R. £10 (E. Stimson) £375
61, Oakhurst Grove, 78 years, G. R. £7 10s. (E. Stimson) £230
135 & 145, Peckham Rye, 26 years, G. R. £20 (Newbon & Harding) £450
4 & 5, Hope Terrace, 73 years, G. R. £11 8s. (E. Wood) £410
Leasehold Ground Rents of £17 10s. G. R. £6, unexpired term 86 years (E. Stimson) £[illegible]30
67 Mayflower Road, unexpired term 80 years G. R. £6 10s. Rent £[illegible] per annum (E. Stimson) . £220
Peckham Rye, No. 23, unexpired term [illegible] years, G. R. £6 4s., estimated rental £50 per annum (E. Stimson) £380
115, Asylam Road, unexpired term 57 years, G.R. £9 5s. 9d., estimated rental £32 (E. Stimson) £175

PENTONVILLE.

23, Baker Street, 19 years, G. R. £16 (E. & S. Smith) £105
25 & 29 Pentonville Road, unexpired term 20 years, G. R. £22 17s 4d (Newbon & Harding) £455

PICCADILLY

The Albany, Freehold, Suite of Chambers, Fee Farm Rent £25 per annum (N. W. Robinson) £480
199, The Lease, unexpired term 13½ years, Rent £000 per annum (Beal, Son & Chartres) £1,040

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ROTHERHITHE

262, Rotherhithe Street, Freehold (F. J. Bisley) £415
2, Aspinden Road, 64 years, G.R. £4 (F.J.Bisley) £340
14, Warndon Street, 67 years, G. R. £2 10s. (F. J. Bisley) £270
8, 10 & 12, Warndon Street, 67 years, G. R. £12 (F. J. Bisley) £735
38, 40, 42 & 44, Westmade Road, 67 years, G. R. £16 (F. J. Bisley) £690
90 to 98 (even), Blewood Street, unexpired term 88 years, G.R. £21 5s., Rent £110 4s. per annum (F. J. Bisley) £800

SHADWELL.

6 to 11, Popes Hill, 10 years, G. R. £25 (C. C. & T. Moore) £150

SHAFTESBURY AVENUE.

6, Archer Street, Freehold, Rent £105 per annum (Messrs. Foster) £2,320

SHEPHERDS BUSH

13 & 15, Warbeck Road, Freehold (F. Hards) £780
58, Cathnor Road, lease 83 years, G. R. £6 (J. C. Platt) £220
53, Bloemfontein Road, unexpired term 90 years, G. R. £5 10s., estimated rental £35 per annum (Pal. Nash & Hadley) £280
25 & 27, Hetley Road, unexpired term 90 years, G. R. £18, Rent £64 per annum (Marter & Deane) £365

SHOREDITCH

25 to 29, New Norfolk Street, Freehold, Rent £182 per annum (G. H. Masterman & Co.) £710
120 & 122, Laburnham Street, Freehold, Rent £54 per annum (Harland & Son) £610
24, Scrutton Street, unexpired term 75 years G. R. £30, Rent £70 per annum (H. J. Bliss & Sons) £350

SOHO

26, Berwick Street, 69 years, G. R. £100 (R. Reid) £145
80, Frith Street, Freehold, Rent £94 per annum (J. & R. Kemp) £2,000
171, Wardour Street, Freehold, Rent £100 per annum (R. Reid) £2,000

SOUTHWARK.

8 & 9, Hayles Street, unexpired term 24 years, G. R. £10, Rent £56 8s. per annum (C. & H. White) £65
91 to 96, Bath Street, unexpired term 62 years, G. R. £27, Rent £209 6s. per annum (F. J. Bisley) £1,550

ST. GEORGE'S-IN-THE-EAST

6 to 11, Ellen Place, unexpired term 9 years, G. R. £12, estimated rental £156 per annum (Eastman Bros.) £255
1 & 3, John's Hill, Freehold, Rent £41 per annum (E. Christian) £200
2, 2 & 3, John's Court, Freehold, Rent £31 4s. per annum (E. Christian) £150
148 to 251, St. George's Street, Copyhold, Rent £112 per annum (C. C. & T. Moore) .. £1,170

ST. JOHN'S WOOD

8, Queen's Terrace, 30 years, G.R. £10 (T. Woods) £900
81 & 82, Hamilton Terrace, 34 years, G. R. £4 (F. J. Bisley) £1,340
116, Boundary Road, unexpired term 61 years, G. R. £70, Rent £65 per annum (Farebrother, Ellis, Clark & Co.) £535
45, Lisson Grove, unexpired term 31 years, G. R. £10 10s. with possession (C.W. Miller) £400
42, Boundary Road, unexpired term 90 years, G. R. £16 (Thurgood & Martin) .. £2,300

ST. PANCRAS

20 to 26, Charrington Street, unexpired term 37 years G. R. £40, Rent £172 (Debenham Tewson, Farmer & Bridgewater) .. £1,870
1 to 6, Penryn Street, unexpired term 61 years, G.R. £25 10s., Rent £190 (Debenham, Tewson, Farmer & Bridgewater) £2,260
12 & 13, Platt Street, unexpired term 64 years, G.R. £6, Rent £74 (Debenham, Tewson, Farmer & Bridgewater) £800
25 & 26, Medburn Street, unexpired term 64 years, G. R. £6, Rent £64 (Debenham, Tewson, Farmer & Bridgewater) £760
41, 42, 43 & 45, Goldington Street, unexpired term 61 years, G. R. £22, Rent £132 (Debenham, Tewson, Farmer & Bridgewater) .. £1,345

STROUD GREEN.

Stroud Green Road, Ground Rents of £7 17s., term 78 years (P. Hodson) £295
62 & 64, Ferme Park Road, unexpired term 89 years, G. R. £20 10s., Rent £111 per annum (P. Hodson) £1,310
23, Florence Road, unexpired term 86 years, G.R. £7, estimated rental £42 per annum (P. Hodson) £310
41, Granville Road, unexpired term 89 years G. R. £9, Rent £45 per annum (E. T. Chevalier & Co.) £450

TOTTENHAM

13, Bruce Grove, 1 r. 31 p., Freehold (Norton, Trist & Gilbert) £2,000
Bruce Grove, 1 acre of Freehold land (A. Richards) £600
St. Anns Road, a part of Freehold land, 1 a. 3 r. 35 p. (J. W. [illegible]) £1,425
Coleridge Villas, unexpired term 77 years, G. R. £13 [illegible], estimated rental £40 per annum (A. Richards) £280
19 to 23, Evelyn Road, unexpired term 68 years, G. R. £12, Rent £16 per annum (Green & Son) £620
1 to 11 (odd), Vicarage Road, unexpired term 98 years, G. R. £38 (Wood & Kirby) £975

TOTTENHAM COURT ROAD

60, Freehold, Rent £170 per annum (R. Reid) £3,010

TURNHAM GREEN

The "Belmont" Tavern and premises, Lease 50 years, G. R. £40 (J. C. Platt) £350

VAUXHALL.

14, Chapter Street, unexpired term 17 years, G. R. £3, Rent £39 per annum (C. & H. White) £190
215 to 221 (odd), Upper Kennington Lane, Freehold Rent £151 per annum (S. Chetwood) £1,680
31, Harleyford Road, unexpired term 17 years, G. R. £5, estimated rental £45 (L. Stimson) £250

VICTORIA PARK

4, 5 & 7, Shafton Road, 57 years, G. R. £12 12s. (H. J. Bliss & Son) £565
107, Bishop's Road, unexpired term 54 years G. R. £5 (Prentice & Matts) £330

WALWORTH.

96 to 102 (even), South Street, unexpired term 62 years, G. R. £23 10s. (E. Stimson) .. £985
29, Cook's Road, unexpired term 36 years, G. R. £5, Rent £28 (J. Hibbard) £220
144, Boyson Road, unexpired term 62 years, G. R. £6 10s., Rent £34 (G. Bransley) .. £390
83, East Street, Freehold, Rent £55 per annum (C. A. Richards) £860
82 & 84, Olney Street, unexpired term 26 years, G. R. £9 (G. A. Wilkinson) £305

WANDSWORTH

3, Ridgmount Road (C. Knowles, Rayson & Co.) £210
174, Trinity Road, 77 years, G. R. £15 (Newton & Harding) £960
Ground Rent of £99 10s. per annum, reversion in 87 years (Bean, Burnett & Eddridge) £2,210
34, Cologne Road, unexpired term 83 years, G. R. £8, estimated rental £40 (A. G. Thompson & Co.) £300
112, High Street, Freehold Rent, £48 per annum (Newton & Harding) £750
Wandsworth Common "Hope Cottage," 164, Trinity Road, Rental £59 per annum, Freehold (E. Richards & Co.) £500
2, Colerick Villas, unexpired term 98 years, G. R. £7, Rent £36 per annum (Staff & Curtho) £325

WESTBOURNE GROVE.

59, unexpired term 22 years, Rent £250 per annum (Beard & Son) £1,100

WESTBOURNE PARK.

125, Freehold, Rent £200 per annum (Newbon & Harding) £4,210
55, Swinbrook Road, Leasehold (Beale & Capel) £250
119, Tavistock Crescent, unexpired term 75 years, G. R. £8, Rent £40 per annum (Collett & Collett) £355
4 & 10, Leamington Road Villas, unexpired term 67 years, G. R. £20, estimated rental £125 (Grance & Son) £1,070
53, Wormington Road, unexpired term 85 years, G. R. £7 10s., Rent £40 per annum (Newton & Harding) .. £700

2.—PROVINCIAL.

BEDFORDSHIRE

LUTON

"Hearts of Oak" public-house, Freehold (Harding & Low) £1,880

SHEFFORD

Six cottages with gardens, situated in the Ampthill Road, yearly rental £36 10s., Freehold (F. Joyce) £495
10a. 0 r. 19 p. of Freehold building land, sold at an average of £87 per acre, the highest price being £94 (J. Nash Cock,

BERKSHIRE.

COOKHAM

Cookham Green, The "Crown" beer house, with cottage, out-buildings, and garden, and block of building land, the whole containing 9 a. 1 r. 16 p. (Buckland & Sons) £1,850

GREENHAM

Freehold estate of 50 acres, known as "Round Oak," with residence, stabling &c. (Few & Dreweatt) £5,100

WINDSOR

10, Clarence Crescent, Freehold (A. T. Barber) £1,400
Leasehold shop and premises in Arthur Road (A. T. Barber) £460

WOKINGHAM

Freehold business premises in Market Place, Rent £00 a year (Weston & Son) .. £1,090
Two cottages with gardens in Peach Street, total rents £25 15s. 9d., Freehold £395

BUCKINGHAMSHIRE.

BOURNE END

Freehold estate known as "Gernheim," extending 10 a. 1 r. 11 p. (Walton & Lee) £5,200

CHESHAM

The "New Inn," Freehold (Harding & Low) £960

HANSLOPE

Hanslope House and 2 acres, Freehold (Durham, Cotton, & Samuel) .. £800

LITTLE KIMBLE.

The Freehold residential property known as "Ladymede," comprising red-brick house, pleasure grounds, area 14 acres (Osborn & Mercer) £4,950

MARSWORTH

Small estate comprising 5 cottages, dwelling house with garden, an enclosure of meadow land, and a plum orchard, estimated rental £48 14s. per annum (Messrs Brown & Co.) £765

POTTER ROW.

"Potter Row Farm," comprising farm-house, buildings, and 55 a. 0 r. 27 p. in the parish of Great Missenden, Freehold (W. Brown & Co.) £2,200

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CAMBRIDGESHIRE.

CAMBRIDGE

Freehold tenements in Gold Street, (Catling & Mann) each .. £130
2 Dwelling houses, Brandon Place (Catling & Mann) .. .. £[illegible]
Hauxton, 3 a. 0 r. 36 p. of arable land (Catling & Mann) £140
10, Sidney Street, Freehold, Rental £60 (A. M. Robinson) £1,[illegible]
Chesterton an allotment of Freehold arable land known as "High Walls," over 5 acres (A. M Robinson) £460
"Milton Hall," and 73 acres, Freehold, 3 miles from Cambridge, also 3 cottages (Debenham, Tewson, Farmer, & Bridgewater) £5,600

ISLEHAM.

An allotment of arable field land, containing 18 a. 2 r. (J. W. Williams) £550

NEWMARKET

Freehold estate known as "Scaltback Farm," comprising 63 acres of land with gravel and stone pits, dwelling house, lawn, gardens and homestead (Feist & Son) 4,500
Dwelling house and stable, cartshed, and other buildings, containing about 1 r. 3 p. in Watto Lane, Freehold (J. Taylor & Son) £150
"The Rising Sun" Inn, full licensed public-house, Freehold (Feist & Son) £2,200
Five cottages in Sun Lane, aggregate rent £41 10s. per annum, Freehold £650

SOHAM

A parcel of Freehold pasture land, containing 5 a. 2 r. 15 p. (J. W. Williams) £460

CHESHIRE.

CHEADLE

Richmond Hill Estate comprising residence and grounds, 24 a. 0 r. 24 p., Freehold (Brady & Son) £6,450
Appletree Farm Estate, Long Lane, consisting of farm house, 12 cottages, and 7 a. 3 r. 3 p. of land, rental £312, Freehold .. £9,000

CHESTER.

Twelve cottages, 1 to 23, Albion Street, rentals 5s. 6d. per week, sold at the rate of £170 per pair, Freehold (Churton, Elphick & Co.)
44, 46, 48, & 50, Trafford Street rentals 5s. 3d. per week, sold at the rate of £325 a pair, Freehold, (Churton, Elphick & Co)
6 & 8, Thomas Street, rentals 5s 6d per week Freehold (Churton, Elphick & Co) £[illegible]
"River View" 13 Sandy Lane, Freehold (Churton, Elphick & Co.) £450
"Rowton Hall," comprising a residence in grounds of 2 acres, with 30 acres of pasture land, Freehold (W. Thompson) £5,500

CONGLETON

Leasehold dwelling house and shop in Kinsey Street, together with leasehold cottage in Bank Street, annual G. R. £2 6s. 8d. (J. Hadfield) £100
2 Leasehold cottages [illegible] Street, G. R. £2 10s. 4d (J. Hadfield) £134

DISLEY.

Seven houses situated in the Square, Copyhold, rentals £83 2s. (Brady & Son) £920

HESTON

8 acres of Freehold land, situate at Moorside, with frontage to river Dee and the road (Churton, Elphick & Co.) £525

HOOLE

"Field House," and 2 cottages and gardens, 20 acres (Churton Elphick & Co) .. £1,300

HIGHER KINNERTON.

Dwelling house, known as "Brook Cottage," with garden stable &c., and 3 enclosures of pasture land, measuring 7 a. 2 r. 35 p. within a ring fence (Churton, Elphick, & Co.) £1,060

MACCLESFIELD

Freehold property, butcher's shop, 16, Chestergate, rental £22 (J. I Brunt) .. £550
Freehold property, "The Grove Inn," Chestergate, together with a lock-up shop, rental £19 10s. (J. I Brunt) £1,58[illegible]
Freehold property, 4 shops and dwelling houses, Nos. 5, 6 & 7 [illegible] (J. I. Brunt) £500
Freehold property, 7 cottages in Pinfold Street (J. I Brunt) .. £530

NEWTOWN.

28, Talbot Street, Freehold (Churton, Elphick & Co.) £180
8, Church Street, Freehold (Churton, Elphick & Co.) £210
64, 66, 76, & 84, St. Anne Street, Freehold (Churton Elphick & Co.) .. .. .. £832 10s.

DERBYSHIRE.

AMBERGATE

Freehold Residence, known as "The Beeches," situate at Bull Bridge, with garden, orchard, &c. (Else & Sons) .. £700

DERBY

Butcher's shop, dwelling house, and four cottages, situate in London Road (Cumberland & Sons) £1,050
"The Green Dragon Inn," covering an area of 3,652 sq. ft. (German, German & Cooper) £4,140
"Black Horse" public-house, situate in Nuns Street, Derby (Cumberland & Sons) .. £1,700
11, 13 & 15, Agard Street, with five cottages and gardens at the rear, Freehold (Earp & Huggins) £575
A semi-detached villa, 18, Vernon Street, Freehold (Earp & Huggins) £660
119, Gerard Street, Freehold (Earp & Huggins) £275

DEVONSHIRE.

EXETER

Dwelling-house, gardens, and premises, 6, Park Place, Longbrook Street, the property, with the exception of the garden, is Freehold (Force & Son) £430
Freehold shop and dwelling-house, 81, South Street (T. Martin) £500
Freehold residence and gardens, 28, Prospect Park (Thompson & Co.) £420
39, Magdalen Street, shop and dwelling-house, Freehold (T. Martin) £240
4, Centre Street, Freehold (T Martin) .. £122
18, Pavilion Place, Magdalen Street, Freehold (T. Martin) £120
15, Richmond Road, Rent £33 per annum, Freehold (T Martin) £610
111, Sidwell Street, Freehold (T. Martin) .. £750

ILFRACOMBE.

Four Freehold houses, Nos. 50, 51 & 52, Fore Street, with a cottage and garden at the rear (H. Braund) £1,100

OKEHAMPTON

Inwardleigh Freehold property, known as "Lower Padson House" gardens stabling and four or five closes of pasture land, in all about 9½ acres (Thompson & Co.) .. £1,000

OTTERY ST. MARY

House and garden, Yonder Street (J. H. Hews) £255

ST MARY CHURCH

11, Western Terrace, Freehold (G. Crockwell) £325

TIVERTON.

A close of pasture, known as "Front Field," forming part of the Horsdon Estate, containing 8 a. 0 r. 10 p. (Ayre Bros. & Bond) .. £1,290
Two closes of arable land with garden, acreage 9 a. 2 r 26 p. (Ayre Bros. & Bond) .. £680
Three fields, all abutting on Exeter Hill, acreage 13 a. 1 r. 4 p. (Ayre Bros. & Bond) .. £750
"The Cross Keys" fully licensed public house, with fruiterer's shop adjoining, Freehold (Ayre Bros. & Bond) £900

TORQUAY

Freehold property, known as "Lisworney" (Atkins & Atkins) £5,000

DORSETSHIRE

BRIDPORT

Freehold residential property, known as "Loder's House Estate," comprising a stone-built residence and grounds of 18¼ acres, on which are farm buildings, gardener's cottage, &c. (Hasham & Son) £2,150

LYME REGIS

A dwelling house and 12½ acres of Freehold land (Radford & Radford) £1,780

SHERBORNE

Caundle Marsh—A dwelling-house, outbuildings, 8 acres of pasture land, and 2 acres of orchard, Freehold (Farrall & Edmonds) £710

DURHAM.

GATESHEAD.

49, 51, 53 & 55, St. Cuthbert's Road, and 1, Palmer Street, Freehold (W. Easten & Co.) .. £71[illegible]

ESSEX.

BRAINTREE

Great Grandcourts Farm, 359 a. 2 r. 25 p., Freehold (G. B. Hilliard & Son) £3,800

CHINGFORD

Copyhold Farm, 11 a. 0 r 7 p. Rent £30 per annum (D. Smith Son & Oakley) £[illegible]

HALSTEAD

Freehold residence in High Street (Bentall & Son) £520
Plot of Freehold land, 1 a. 3 r. 38 p., with double cottage (Bental. & Son) £[illegible]

ILFORD

1, Read's Place, unexpired term 84 years, G.R. £6, Rent £20 per annum (H. W. Iles) .. £70
Ilford Nursery and 4 a. 2 r. 16 p., Freehold (T. [illegible]) .. £1,140

LEYTONSTONE

"Forest House," and 45 acres, Freehold (W. & F. Houghton) .. £24,000

MARGARETTING.

Freehold house and enclosure of meadow land, containing 5 a. 3 r. 11 p., situate near Margaretting Street (G. B. Hilliard & Son) £400

ROMFORD.

The Laurie Arms tavern, Freehold (L. J. Fraser) £915

SNARESBROOK.

"Castle House," and 3 a. 2 r. 2 p., Freehold (W & F Houghton) £5,000

SOUTHEND

The "Minerva" Hotel, Copyhold, Rent £80 per annum (A. & A Field) £3,250

TILBURY (East.)

Three Freehold cottages, Rental £15 4s. (Glover & Homewood) £170

UPMINSTER

Hacton Park Corner Farm, containing 140 a. 2 r. 39 p., Freehold (Mr. Roydon) £5,200
"West Lodge," Freehold, Rent £75 per annum (Cook & Smith) .. £1,400

WALTHAMSTOW

5, 6, & 7, Hillside Terrace, 90 years, G. R. £4 10s. (Toplis & Harding) £110
"West View" with stabling Freehold estimated rental £45 per annum (W & F Houghton) £620
64 to 68 (even), Boston Road, Freehold, Rent £62 per annum (T. J. Bass & Sons) £48[illegible]
36, Beulah Road, Freehold, Rent £32 per annum (G. E. Clarke) £410
11, Cromwell Road, Freehold, Rent £20 per annum (Whittingham & Sons) £400

WESTON.

Small landed property known as "Stocks," situate at Weston, comprising dwelling-house, farm buildings, and 17 a. 1 r. 12 p. of arable land (Sexton & Grimwade) £250

GLOUCESTERSHIRE.

BADGEWORTH.

Freehold Estate known as "Bamfurlong," comprising three pieces of grazing and pasture land with sheds, containing 20 a. 1 r. 16 p., Rent £50 per annum (W. W. Moore) £1,010

BEDMINSTER.

24, Princess Street, Spring Street, let at 5s. per week (G. Nichols, Son & Alder) £125
The "London Inn," fully licensed public-house facing East Street, Freehold (G. Nichols, Son & Alder) .. £340
A piece of land with cottage, adjoining Victoria Road, about 1,900 square yards, Freehold (G. Nichols, Son & Alder) £68
102, Mead Street, Freehold (E. T. Parker) £187,10s

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BRISTOL.

Totterdown—4 Freehold houses, Nos. 41, 43, 45, & 47, County Street, aggregate rentals £58 10s., aggregate ground rents £10 (C. H. Tucker) £480
Totterdown—3 houses 45, 49 & 51, Summers Hill, aggregate rents £46 10s., aggregate G. R. £12 (C. H. Tucker) £360
Totterdown 2 houses, 35 & 37, Summers Hill, aggregate rentals £49 18s., G. R. £5 (C. H. Tucker) £240
Totterdown—2 houses 6 & 13, Parliament Street, aggregate rentals £28 12s., G. R. £5 (C. H. Tucker) £240
Willsbridge, West Gloucestershire Lime works, comprising 2 lime kilns, cottage, and 9 a. 3 r. (Mr. C. A. Fricks) £705
94, York Road, New Cut, G. R. £4 10s (Nicholls, Son & Ancer) £170

CHELTENHAM.

24, Montpelier Villas and shop adjoining being No. 8 Suffolk Road (Harrison, Bayley, & Co.) £440
17, Tivoli Street (Harrison, Bayley & Co.) £100
[illegible] Street (Harrison, Bayley & Co.) £154
[illegible] Springwell Place (Harrison, Bayley & Co.) £154
[illegible] Dale Hayes Terrace (Harrison, Bayley & Co.) £136
[illegible], Weston Cottages (Harrison, Bayley & Co.) £[illegible]
1 to 4, and 6 to 10, Weston Cottages (Harrison, Bayley & Co.) £900
Building land at St. Mark's (Harrison, Bayley & Co.) .. .. £14[illegible]
Plot of land at Cloddymore, St. Mark's (Harrison, Bayley & Co.) £39

CLIFTON

Freehold residence known as "Deepholm," G. R. £11 (Alexander, Daniel, Selfe & Co.) .. £2 4s
The Freehold messuage and premises, opposite the bottom of St. Stephen's Street and Small Street, formerly known as the "St. John's Porter House, G. R. £7 per annum (Alexander Daniel, Selfe & Co.) £850
5, Ambra Hill, Clifton Wood, G. R. £3 per annum (Alexander, Daniel, Selfe & Co.) £190
"Barton Hill Pottery," Queen Anne Street (Alexander, Daniel, Selfe & Co.) £750
52, Oakfield Road, G. R. £7 (Alexander, Daniel, Selfe & Co.) .. £640

PORTISHEAD

Claremont Villa, West Hill (Alexander, Daniel, Selfe & Co.) £280

STROUD

The Rodborough Manor Estate, consisting of Mansion, kitchen, gardens, cottages, comprising 253 acres, Freehold; also Freehold residence known as "Holy Grove House," with ornamental grounds and stabling (Farebrother, Ellis, Clark & Co.) £14,000
The Bell Hotel, Freehold (W. Knowles) .. £2,100
2 a. 1 r. 7 p. of building land on the north side of the Stroud and Chalford Road, Freehold, rental £7 per annum (W. Knowles) £285

HAMPSHIRE.

HAVANT.

Freehold property known as the "Miller's Arms," situate at the corner of North and East Streets (A. C. Lewis) £1,050
A piece of Freehold orchard ground, about three-quarters of an acre in extent, situated near the Town Hall (A. C. Lewis) £155

HYTHE

Freehold estate, known as "Langdown Lodge," comprising family mansion, and grounds of 30 acres (Rushworth & Stevens) £3,000

LYMINGTON.

Walhampton Cottage and 4 a. 2 r. 5 p., Freehold (Beadel & Co.) £1,800

PORTSEA

Parry Villa, Forton Road, with small pleasure garden (King & King) £720
Freehold corner shop, 36, Ferrol Buildings, Forton Road, with three wood-built cottages in rear, and six ditto fronting into Ferrol Buildings Rd. frontage of 120 ft. (King & King) £660
Block of seven wood built-cottages, 23 to 29, Ferrol Buildings with plots of garden land in front about 90 ft. frontage (King & King) £475
Four Freehold dwelling-houses in Ferrol Buildings Road (King & King) £520
13 & 14, Ferrol Buildings, with plot of land on each side, frontage 75 ft. (King & King) .. £465
Plot of Freehold building land, frontage 60 ft., depth of 90 ft. (King & King) £185

ROPLEY.

Freehold estate, known as "Littlegrove," comprising a family residence and farm of 150 acres (J. Harris) £3,000

SOUTHSEA

Freehold building estate of about 8¾ acres, situate at Hill Lane (Penney & Clarke) .. £4,000
Two Freehold [illegible] in Osborne Road Lane (Cooper) .. .. £6[illegible]
104, King Street, Freehold (Penney & Clark) £[illegible]
9, King Street, Freehold (Penney & Clark) .. £2[illegible]
71, Grigg Street, Freehold (Penney & Clark) .. £140
4, Hampshire Street, Freehold (Penney & Clarke) £105

UPTON GREY.

48 a. 3 r. 38 p. Freehold, Rental £35 15s. per annum (Rawlins & Sons) £1,400

WICKHAM

Two shops and dwelling-houses in Bridge Street, Freehold (Penney & Clark) £430
Two dwelling-houses, with carpenter's shop and stores, High Street, Freehold, Rent £30 per annum (Penney & Clark) £445
A cottage and piece of land on Winchester Road, Freehold (Penney & Clark) .. £165

WINCHESTER.

1 to 4, St. James's Terrace, Freehold, Rent £103 per annum; 1 & 2, St. James's Terrace (J. Harris) £825
3 & 4, St. James's Terrace (J. Harris) .. £850
1, Southgate Road, Freehold (H. Warren) .. £405
Two Freehold tenements in Bridge Street (H. Warren) .. .. .. £[illegible]

HEREFORDSHIRE.

HEREFORD

The Freehold full licensed hotel, known as "The Raven," situate at corner of Widemarsh and Maylord Streets (G. W. Meats) £3,150

HERTFORDSHIRE

WARE

Freehold residence, known as "Masters Lodge," New Road (R. Thorowgood) £1,095

CHESHUNT.

Crouch Lane—A cottage and 5 a. 2 r. 29 p. (Debenham, Tewson, Farmer & Bridgewater) £360

TRING

Six Freehold villa residences in Park Road, Rental £96 per annum, and three Freehold houses in Albert Street, Rents £44 a year (W. Brown & Co.) £1,935
11 Freehold houses in Brook Street (W. Brown & Co.) £1,275

HUNTINGDONSHIRE.

HUNTINGDON.

52, High Street, with ironmonger's shop, smith's shop, warehouses and buildings, Freehold, annual rent £60 (Dilley & Son) £[illegible]20
Little Stukely, near Huntingdon, "Denhill's Farm," area 62 a. 3 r. 15 p., Freehold (Dilley & Son) £1,000

ST. NEOTS

Dwelling house, bake-house, flour mill, &c., situated at Offord Darcey (F. J. Maddison) .. £600
A butcher's shop and dwelling house together with two cottages, outbuildings, &c., situate in Brook Street (F. J. Maddison) £375

WOODHURST.

Dwelling-house and 51 a. 1 r. 30 p., Copyhold (Dilley & Son) £840
19 a. 3 r. 37 p., Copyhold, (Dilley & Son) .. £330

KENT.

BECKENHAM

1 & 2, Richmond Villas, Freehold (Robinson & Sons) £665
The residence called "Chesterleigh," 77 years, G. R. £17 (Baxter, Payne & Lepper) .. £1,400
Kent House Road—The Freehold residence "Montrose" (J. J. Deverell) £550
"Hyde House," in Brockley Road, Lease 70 years, G. R. £12 (Baxter, Payne & Lepper) .. £1,000
Two residences in Lennard Road, unexpired term 88 years, G. R. £16 16s. per annum (Dowsett & Co.) £[illegible]

BROMLEY

88, St. Leonard Street, 80 years, G. R. £4 (J. G. & A. Prevost) £55
90, St. Leonard Street 80 years, G. R. £5 (J. G. & A. Prevost) £43
19, 20 & 21, Grace Street, Freehold (J. G. & A. Prevost) £800
Enclosures of Freehold land, area [illegible] acres (Beadel & Co.) .. .. £[illegible]
Freehold residence known as "Warren," on Windmore Road (Baxter, Payne & Lepper) £3,000

CHARLTON.

1 & 2, Charlton Green, Freehold (Messrs. Tewson) £[illegible]
[illegible] to 4, Cannon Cottage, Charlton Green, Freehold (Messrs. Tewson) £600
7, St. Catherine's Place, Freehold (Messrs. Tewson) £[illegible]
4, De Burgh Street, Freehold (Messrs. Tewson) £30[illegible]

CHISLEHURST

2 to 7, Victoria Road, Freehold, Rent £78 per annum (Norton, Trist & Gilbert) £450

CRANBROOK

"Hancocks Farm" Freehold, 126 acres (Winch & Sons) .. £3,220

DOVER

4, Cowgate Hill, Freehold (Worsfield & Hayward) £265
31, Commercial Quay, 81 years, G. R. £2 (Worsfold & Hayward) £490
Charlton—43, Peter Street, Freehold (Worsfold & Hayward) £170
Buckland—5 & 6, Primrose Road, Freehold (Worsfold & Hayward) £320
8 & 9, Union Row, Freehold, Rent £49 per annum (Worsfold & Hayward) £460

FOLKESTONE.

5, Marine Terrace, Golder Street, held for 84 years from 1860, G. R. £5, Rent £50 per annum (Messrs. Banks & Son) .. £540
1, 10, 12, 14, & 18, Radnor Park Road, unexpired term 55 years, yearly G. R. £5 5s. each (Messrs. Banks & Son) £2,685

ISLE OF THANET.

Thorne House and Farm, 367 a. 0 r. 32 p., Freehold, Rent £831 10s. per annum (Messrs. Cobb) £13,000
Enclosures of land, 18 a. 1 r. 34 p. Freehold Rent £48 10s. per annum (Messrs. Cobb) £1,445
Enclosure of marsh land, 81 a. 3 r. 36 p. Freehold, Rent £100 per annum (Messrs. Cobb) .. £3,725

MAIDSTONE.

A builder's yard and premises in Knightrider Street, frontage 42 ft. 6 in. to the street, and depth about 73 ft., together with adjoining cottage (Tootell & Sons) £440
Sixteen cottages in Water Lane, Freehold (Tootell & Sons) £625
An extensive yard, with dwelling-house, cottages, sheds, malt-house, Rental £75 per annum (Tootell & Sons) £1,100
Ten cottages in Union Street, gross rental £104 (Tootell & Sons) £950
A dwelling-house, coachbuilder's shops, show-rooms, offices, yard and premises, 62, King Street, Freehold (Tootell & Sons) £1,375
9, Market Buildings, with shop, yard and premises, Freehold (Tootell & Sons) £700

MARDEN

Cottage with garden, and 2 a. 2 r. of hops and meadow and Freehold, situate at Spittlebridge (Tootel & Sons) £255

RAINHAM

Freehold residence with grounds, Rent £45 per annum (Messrs. Cobb) £750

RAMSGATE

Yard and premises in King Street, Rental 30s. per week, Freehold (Vinter & Son) £1,250
"Waterloo Villa," East Cliff, £32 per annum, Freehold (Vinter & Son) £740

ROSHERVILLE.

Pier Road, Freehold, Ground Rents of £162 18s. with reversion in 47 years (Chinnock, Galsworthy & Chinnock) £4,785

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SEVENOAKS

Granville Road, Oak House, Rent £75 per annum, unexpired term 98 years, G. R. £15 (Fitch & Grant) £600
The residence "Westwood," unexpired term 98 years G. R. £15, estimated rental £75 per annum (Fitch & Grant) .. . .. £6[illegible]

STROOD

"Sydenham House," with piece of building land Rental £46 (Messrs. Cobb) £1,000
London Road, Two Freehold houses (Messrs. Cobb) £2,440

TUNBRIDGE WELLS.

19, Upper Grosvenor Road, Freehold, let at £60 (Roper & Carter) £910
17, Bridge Road (Roper & Carter) . .. £39[illegible]
1 & 2, Park Place, Prospect Road, Freehold, producing £56 per annum (Brackett & Son) £980
Two Freehold residences known as "Hea[illegible]" [illegible] Mor[illegible] in Park Road, Woodbury Park, estimated rental value £200 a year (Dunn & Soman) £2,980

LANCASHIRE.

BLACKBURN.

A plot of Freehold land, situate on the southerly side of Johnstone St., containing 522 superficial square yards, with four dwelling-houses and shops erected thereon (J. H. Birtwistle) £905
Freehold dwelling house in Thistle Street G. R. 12s. 8d. (J. H. Birtwistle) £110
Plot of Leasehold land in Craven Street, containing 173 square yards, with two dwelling-houses thereon (J. H. Birtwistle) . . . £215
62 & 64, Preston New Road, Freehold (W. Salisbury & Hamer) £860

LIVERPOOL.

27, Christian Street, Islington, and the adjoining dwelling-house in Gerard Street, total gross annual rental £60 16s., Freehold (T. Whitehead & Son) £780

LEICESTERSHIRE.

LEICESTER.

Two messuages, 17 & 19, Buckingham Street, net annual rental £28 (H. T. Porter) .. . £520
21 to 27 (odd), Buckingham Street, rental £48 (H. T. Porter) £855
29, Buckingham Street, rental £14 (H. T. Porter) £265
35 & 37, Arundel Street, rental £26 (H.T. Porter) £445
39 & 41, Arundel Street (H. T. Porter) .. £440
Six messuages, 21 to 27, Duke Street, and 1 & 3, James Street, Welford Road, gross rental £74 2s. (H. T. Porter) £1,060
Two messuages, 33 & 33a, Pasture Lane, gross rental £23 8s. (H. T. Porter) . . £055
Five messuages 5 to 9 (odd) Tatteton Street gross rental £61 [illegible] (H. T. Porter) £660
14 Red Cross Street [illegible] messuages [illegible] yard at back, annual rental £39 (H. & F. Tarratt) £400
4, 6, 8 & 10, Sycamore Lane, rental £49 8s. (H. & F. Tarratt) £640
Four shops, 33, 35, 37 & 39, St. George's Street, gross rental £70 16s. (H. T. Porter) .. £1,165
Six messuages, 2, 4, 6, 8, 10 & 12, Peel Street, rental £63 14s. (H. T. Porter) . . £1,085
121, 122, 125, & 127, Twycross Street, gross annual rental £62 8s. (H. T. Porter) . .. £890
58, 60, 62 & 64, Birstall Street, gross annual rental £52 (H. T. Porter) £735
4, 6, 8, 10, 12, 14, 16 & 18, Sherrard Street, gross annual rental £111 16s., Freehold (H. T. Porter) £1,585
Freehold shop and messuage and 6 messuages in William St. and Richard Street, Rent £94 14s. (H. T. Porter) £1,[illegible]
"Oadby Hall House," near Leicester, and grounds of 7 a. 1 r. 36 p., Freehold (H. & F. Tarratt) £6,000

TUR LANGTON

A large dwelling-house, with 159 a. 2 r. 34 p. of grazing land, also a house and orchard, and five cottages (Holloway, Son & Price) £12,500

LINCOLNSHIRE.

GRANTHAM.

Spittlegate House," London Road, Freehold, surrounded by grounds 1 a. 0 r. 17 p. in extent (H. Escritt) £2,800

GREAT GRIMSBY

A seven-roomed cottage in New Dock Street (Thompson & Wood) £91
The "White Hart" Hotel, Freehold (Thompson & Wood) £3,700
"The Greyhound" hotel, Leasehold, 11 years unexpired (Thompson & Wood) £640

LOUTH

Welton Manor estate, near Louth, over 900 acres, including mansion, cottages, farm buildings, & £[illegible]
"The Plough," Freehold public-house, with three Freehold residences adjoining (Vere & Kiddall) £1,130

SPALDING

Childers North Drove, 3 a. 3 r. 22 p. of Freehold pasture land (S. & G. Kingston) £320
Pennygate, dwelling-house with outbuildings and 10 acres of arable land (S. & G. Kingston) £785

MIDDLESEX

EDMONTON.

A Ground Rent of £15, reversion in 78 years (A. Richards) . £315
A Ground Rent of £20, reversion in 78 years (A. Richards) £420

HARROW

Three plots of Freehold land (C. A. Wilkinson) £111

ISLEWORTH.

Freehold house and 3 a. 3 r. 34 p., Rent £75 per annum (G. A. Wilkinson) £2,010
"Heston Lodge," with grounds, Freehold, estimated rental £120 per annum (T. Woods) £1,590

STAINES

Two Cottages in Church Street, let at £19 10s. per annum, Freehold (T. Woods) . . £330

UXBRIDGE

Two Freehold houses in Belmont Road (Morten & Sons) £330
Two Freehold houses with gardens, St. John's Road, Uxbridge Moor (Morten & Sons) . £370

MONMOUTHSHIRE.

NEWPORT.

Abercarn—Copyhold property known as "Gellygoedog Farm," containing 34 a. 2 r. 20 p. also the mines and minerals under the farm, and common rights (J. Young) . . £3,000
The "Royal George," beer-house, Church Street, unexpired term 8 years, G. R. £3 6s. 8d. (A. Newland) £345
20, Church Street, unexpired term 8 years (A. Newland) .. .. £112 10s.

PONTYPOOL

The "Crown Hotel," situate in the main Street, Freehold (T. Parry) £5,150

NORFOLK.

DICKLEBURGH

Dwelling-houses, premises and 4 a. 2 r. 25 p. Freehold (Maddison & Miles) £365

NORWICH

59 & 61, Peter Street, Dereham Road (S. Mealing Mills) £245

NORTHAMPTONSHIRE.

KETTERING

Copyhold dwelling-house, with butcher's shop at corner of Huxloe Place and High Street (J. Robinson & Son) £850
Piece of Freehold building land on South side of Wood Street, area 839 sq. yds., sold for 3s. per yd. (J. Robinson & Son)
1 a. 3 r. 7 p. of Copyhold land in Rockingham Rd. (J. Robinson & Son) £420
Freehold residence with garden, known as "Elysium House," in Broadway (J. Robinson & Son) £650
Three Freehold houses in Granville Street, with workshops and gardens, Rent £39 13s. a year (J. Robinson & Son) £405

LONG BUCKBY.

Ten Freehold cottages, situated in High Street (Cropper & Norman) £1,200

NORTHAMPTON.

22, Bridge Street, Rental £95 per annum (C. Thorpe) £1,350
43, Victoria Road, Rental £18 (C. Thorpe) .. £320
157, Kettering Road, Rental £19 10s. (C. Thorpe) £365
60, Marefair, Rental £65 (C. Thorpe) . .. £950
Quinton Manor Farm and Lower Farm, Freehold, containing 593 a. 3 r. 11 p., Rent £783 16s. per annum (Farebrother, Ellis, Clark & Co.) £15,600
20, Woodford Street (T. C. Woods) £170
Two dwelling houses in Weston Place (T. C. Woods) £145
Three houses . Bell Barn Street (T. C. Woods) £235
Shop and dwelling-house, 39, Horsemarket, Rent £19 10s., Freehold (Macquire & Tarry) . £290
41, Horsemarket, with premises at the rear, annual Rent £27 8s., Freehold (Macquire & Tarry) £510
17 & 19, Albert Street, Freehold (T. Merry) £325
5, St. Edmund's Road, Freehold (T. Merry) £260

PETERBOROUGH

19 & 20, Eastfield Road, Freehold (Fox & Vergette) £[illegible]
36 & 38, Whalley Street, Freehold (Fox & Vergette) £[illegible]

ROTHWELL.

Four Freehold cottages, producing annual rental of £26 (J. Robinson & Son) . . £270

NOTTINGHAMSHIRE.

WORKSOP.

Freehold residence, 10, Potter Street, let on a yearly tenancy at £80 (Baker & Sons) £1,000

OXFORDSHIRE.

DORCHESTER.

Freehold family residence known as "Beech House," in grounds of one acre (Franklin & Lane) .. £[illegible]

OXFORD.

Four Freehold cottages, Rent £95 8s. per annum (Farebrother, Ellis, Clark & Co.) . .. £500

RUTLANDSHIRE

CALDECOTT.

A residence with stable and garden (Tiptaft, Edwards & Wright) £335
5 a. 0 r. 7 p. of feeding land (Tiptaft, Edwards & Wright) £425
6 a. 3 r. 21 p. of feeding land (Tiptaft, Edwards & Wright) £455

SHROPSHIRE.

DIDDLEBURY AND CULMINGTON.

The "Corfton Estate," comprising residence, 3 farms, with farm-houses and buildings, the "Sun Inn," and several cottages, the whole covering an area of 1,286 acres, gross rental £1,800 per annum, Freehold (D. Smith, Son & Oakley) £32,000

OAKENGATES.

"The Fighting Cocks," full licensed public-house, Freehold (Hall, Wateridge & Owen) .. £1,800

SHREWSBURY.

The fully-licensed inn, known as "Admiral Benbow," situate on Swan Hill, with large enclosed yard and extensive stabling, containing 483 sq. yds., Freehold (Hall & Wateridge) £1,300
27 & 28, Swan Hill, Freehold (Hall & Wateridge) £5[illegible]

STANTON LACY.

Freehold estate, consisting of 51 a. 1 r. 23 p. of land, situate at Upper and Lower Hayton (Orchard 2 r. 27 p. £60), house, buildings, fold and paddock, and pasture arable lands in all 50 a. 0r. 1½ p. (H. Horton).. .. .. £1 725

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SOMERSETSHIRE

BATH.

22, Marlborough Buildings, Freehold, yearly fee farm, Rent £10 7s. (Powell & Powell) . £1,300

ILMINSTER

Freehold residence in West Street, with flower and kitchen gardens, conservatory, and small piece of orchard ground, yard, carriage-house, and stable, containing about 3 acres (H. M. Hex) . £1,000

STANTON WICK.

Pasture land with cottage, garden and buildings, containing 9 a. 1 r. 38 p. (G. Nichols, Son & Alder) . £[illegible]
Several closes of pasture and arable land, containing 35 a. 2 r. (G. Nichols, Son & Alder) . £1,[illegible]
Two pieces of pasture and arable land, containing 13 a. 1 r. 24 p. (G. Nichols, Son & Alder) . £360
Several closes of pasture land, containing 38 a. 1 r. 39 p. (G. Nichols, Son & Alder). £1,275

SUTTON MALLETT

Freehold estate, known as Sutton Farm, 260 acres (C. R. Morris, Son & Peard) . £13,485

TAUNTON

Freehold dwelling-house and garden in Waverley Terrace, Richmond Road (W. J. Villar) £180

STAFFORDSHIRE

WOLVERHAMPTON.

"Alexander House," 80, Compton Road, Freehold (Nock & Chase) . £675
18, Waterloo Road South, Freehold (Nock & Chase) £750

YOXALL

The Freehold property known as "Longcroft Hall" estate, comprising residence, kitchen gardens, the farm-houses and smaller holdings covering 300 acres. Rent £800 per annum (H. Fox & Bousfield) £20,500

SUFFOLK.

IPSWICH

Leasehold premises, 38, Princes Street (Mr. Ross [illegible]) £[illegible]
"Shah Villa," Spring Road, with walled garden (Moulton, Fisk & Walker) . £[illegible]
Freehold licensed public-house known as "The Admiral's Head," at Major's Corner, Rental £45 a year (Garrod, Turner & Son) £500
Four Freehold dwelling-houses, 16, 18, 20 & [illegible] Pottery Street, annual Rent £38 2s. 6d. (Garrod, Turner & Son) . £[illegible]
Eight dwelling-houses, 4 to 18, Lower Gibson Street, St. Helen, Rentals amounting to £59 16s. per annum (Garrod, Turner & Son) £450
14 & 16, Elliott Street, Rentals amounting to £23 8s. per annum (Garrod, Turner & Son) £250
Three Freehold houses in Little Colman Street, Rent £32 10s. per annum (Garrod, Turner & Son) . £405
158, St. Matthew's Street, Freehold (R. Bond & Son) . £980

LOWESTOFT

Freehold family residence situate in Arnold Street, known as "Priory Villa," with garden, [illegible] (Nunn) . £[illegible]
"Crown Meadows," 10 a. 3 r. 30 p., Freehold (Debenham, Tewson, Farmer & Bridgewater) £3,500
7 & 8, Crown Street, Copyhold, Rent £21 10s. per annum (Debenham, Tewson, Farmer & Bridgewater) . £[illegible]

STOWMARKET

Freehold dwelling-house in Chalder Road (Hunt & Peddar) . £28[illegible]
Four tenements in Regent Street, Rents £30 10s. per annum (Hunt & Peddar) . £[illegible]

STRADBROKE

A dwelling house in two tenements, with various outbuildings, Rent £15 (Messrs. Moore, Garrad & Son) . £130
Hoxne. Two cottages in three tenements, with gardens (Messrs. Moore, Garrad & Son) £140

SURREY

CATERHAM

Two plots of land, High Street, Freehold (C. & F. Rutley) . £[illegible]
Upper Caterham. An enclosure of Freehold land 4 a. 0 r. 30 p. (C. & F. Rutley) . £[illegible]
Two enclosures, Freehold, 5 a. 1 r. [illegible] p. (C. & F. Rutley) . £65[illegible]
Freehold House, Shop and Show Room, Rent £70 per annum (C. & F. Rutley) £1,050
"Fairlawn," a Freehold Residence with Stabling, and 5½ acres, within half-a-mile of Caterham Station (E. Fox & Bousfield) . £4,020

CROYDON

Dagna Park.—Ground Rent of £9, reversion in 66 years (E. Hard) . £[illegible]
1 to 6, Station Terrace, Freehold, Rent £640 per annum (Fuller, Moon & Fuller) . £11,800
20, Church Street, Rent £83 per annum, Freehold (Fuller, Moon & Fuller) . £1,440

EGHAM

Three cottages, Rent £27 6s. per annum, Freehold (T. Woods) . £[illegible]

GODALMING

Two shops in Bridge Street, 21 years, Rent £80 per annum (Messrs. Malersh) . £1,600
Three Freehold cottages, Rent £[illegible] 2s. per annum (Messrs. Malersh) . £[illegible]

GUILDFORD

"Tangley House," with seven labourers' cottages, and 172 a. 3 r. 35 p., in the parish of Wonersh, Freehold (Thurgood & Martin) . £10,500

LEATHERHEAD

Freehold residential property, known as "Devon House," with small plot of land adjoining (F. L. Crow) . £[illegible]

REDHILL

Three cottages in Somerset Road, Meadvale Rents £46 16s. per annum (H. Stacey) . £[illegible]
A pair of Freehold cottages, situate at St. John's, Rental £98 12s. per annum (H. Stacey). £360

SURBITON.

9 to 19, Woodside, Freehold, Rent £120 per annum (Ward & Clarke) . £1,100

SYDENHAM

"Trewsbury House," Trewsbury Road, lease 90 years unexpired G. R. £3 11s. 6d. (G. Pratt) £975
Ground Rent of £56 per annum, reversion in 88 years [illegible] (Pratt & Mitchell) . £[illegible]
1 & 2, Hilton Villas, Freehold, Rent £60 per ann (Square & Newton) . £[illegible]
52, West Hill, unexpired term 62 years, G. R. £15 per annum (Norton, Trist & Gilbert) . £[illegible]
West Hill [illegible] known as "Fairlight" unexpired term 69 years, G. R. £2 per annum (Eastman Bros.) . £1,340

LOWER SYDENHAM

47 to 53 (odd), Porthcawe Road, unexpired term 82 years, G. R. £18 (C. C. & T. Moore) . £300

WEYBRIDGE

Two Freehold semi-detached cottages, Nos. 1 & 2, Firgrove Cottages, annual rental £27 6s. (Waterer & Sons) . £350
Linden Cottage, Princess Road, Freehold, Rent £40 per annum (Waterer & Sons) . £700
Two semi-detached cottages in Brooklands Road, Rental £26 13s. (Waterer & Sons) . £310

WIMBLEDON

8 Russell Road, Freehold (W. H. Hawes) . £300
34 Peiham Road, Freehold, Rent £38 per annum (J. C. Olley) . £[illegible]

SUSSEX.

BRIGHTON

Two detached residences in Victoria Mansions, Grand Avenue; two detached residences in The Drive; a mansion in Lewes Crescent and one in Eastern Terrace, and a residence with 5 acres of ground in the Dyke Road. These several properties are Freehold (Messrs. Jenner & Dell.) . £40,450
Freehold residence, 1 Buckingham Street, Rental £40 per annum (E. Wells) . £540
3, Shaftesbury Road, Freehold, Rental £22 (E. Wells) . £260
5, Shaftesbury Road, Rental £30, Freehold (E. Wells) . £[illegible]
88 Preston Road, Freehold (E. Wells) . £[illegible]
"Lamb Inn," Warting Hill, let at £75 (E. [illegible]) . £1,[illegible]
7, Regency Square, combining in the rear small business premises fronting Preston Street, Freehold (Jenner & Dell) . £3,700
41, Buckingham Place, Freehold (J. W. Stride & Sons) . £1,620
20 Montpelier Road, Freehold, Rent £75 per annum (H. J. Burt) . £1,210

CHICHESTER

Two Freehold houses in Chapel Street (Wyatt & Son) £840
Centre Lane, 5 cottages, 31 years, R. 28. 6d. (Wyatt & Son) . £[illegible]
Hassocks Square, Freehold [illegible] premises, Rent £7 per annum (Wyatt & Son) £460

EASTBOURNE

84, Pevensey Road, Freehold, Rental £50 (J. C. Towner) . £600
16 Sea Side Road, Freehold, Rent £100 per annum (J. C. Towner) . £2,080
[illegible] Sea Side Road, Freehold, Rent £80 per annum (J. C. Towner) . £1,200
[illegible] Victoria Place, Freehold, Rent £65 per annum (J. C. Towner) . £1,280
5, Pevensey Road, Freehold, Rent £70 per annum (J. C. Towner) . £[illegible]
[illegible] Pevensey Road, Freehold, Rent £50 per annum (J. C. Towner) . £[illegible]
Kolassy House, Freehold (J. C. Towner) . £1,100
1, Trayton Terrace, Latimer Road, Leasehold estimated rental £45 per annum (C. E. Horne) £400

EAST GRINSTEAD.

Freehold residence called "The Hermitage," standing in grounds of 5 acres (G. Simmons & Gasson) . £4,000
Burwash—"Boreman's Farm," covering an area of about 153 acres, partly Copyhold and partly Freehold (G. Simmons & Gasson) . £3,300

HASTINGS

Nine lots, improved Leasehold Ground Rents, amounting to £138 14s. per ann. for 593 years, arising out of and secured upon, Crown properties situate in Carlisle Parade, Robertson Street and Robertson Terrace (Woodhams & Son) £3,085
3, St. Mary's Road, Westhill, Freehold (Woodhams & Son) . £[illegible]
4, Sinnock's Square, Freehold (Woodhams & Son) £240
1, 3, 4, & 5, Marine Parade, Freehold (Woodhams & Son) . £[illegible]
8, 9, 10 & 30, George St., Freehold (Woodhams & Son) . £2,470
[illegible] Queen's Road and 3, Bedford Place, Freehold (Woodhams & Son) . £1,800
31, Wellington Square, Freehold (Woodhams & Son) . £1,150
172, 173, 174, 175, & 90, Queen's Road, Freehold (Woodhams & Son) . £3,[illegible]

ST. LEONARDS.

117 & 118, Marina, Freehold (Woodhams & Son) £2,[illegible]
47, Gensing Road, Freehold (J. & A. Bray) £640
A corner plot of building land having frontages to Gensing Road and North Street (J. & A. Bray) £150

WORTHING.

Freehold [illegible] 50, Victoria Avenue (C. Pavis) . £[illegible]
[illegible] p. Freehold [illegible] road frontage (J. [illegible] Sons & Weller) . £150
9 [illegible] Street and 3 Anglesea Street [illegible] Rent £150 per annum ([illegible] & Co.) . £1,625

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WARWICKSHIRE.

BIRMINGHAM.

Leasehold property in Barker Street, Rents £91 G. R. £9 7s. (Edwards Son & Bigwood) £720
Freehold Ground Rent in Westminster Road, of £7 15s. 6d. (Edwards Son & Bigwood) £207 10s.
Belgrave Street, Balsall Heath 103 & 105, Freehold shops and dwelling houses; lease 60 years [illegible] £8 19s. 4d., 108 & 109, private houses; combined rents £37 9s. 4d. a year (W. Collins) £785

COVENTRY.

Berkswell Hall Estate - Berkswell farm, 131 a. 0 r. 3 p. Freehold, Rent £257 per annum (Driver & Co.) £6,500

LEAMINGTON.

"Lancelyn House," Milverton Hill, Freehold (Cookes & Southorn) . £ [illegible]

STRATFORD-ON-AVON

Six Freehold houses in Holton Street, total annual rental £70 17s. (W. Barnard) . . £900
40, 41, 42, 43, 44, & 45, College Lane, annual rental of £61 15s. (W. Barnard) . . £782 10s.
36, 37, 38, & 39, West Street, annual rental £79 (W. Barnard) .. £ [illegible]
8 & 9, Wood Street, unexpired term 29 years (Hutchins & Deer) . £53[illegible]

WARWICK.

3, Freehold houses in Pickard Street (Messrs. Margetts) .. . £310

WILTSHIRE.

MERE.

"Layfield House," Freehold (J. Harding) . . £550
Two closes of pasture land adjoining (J. Harding) £27
7 a. of arable land on the Deverill Longwood Road, Freehold (J. Harding) £350
6 acres of arable land at Barrow Street, Freehold (J. Harding) . . £[illegible]

SALISBURY.

Two shops and dwelling houses situate in High Street, Freehold (Waters & Rawlence) . £1,500
Freehold dwelling-house, 14, Elm Grove Terrace, (Waters & Rawlence) .. . £300
2, Spire View, Freehold (Waters & Rawlence) £320
Freehold shop with house and garden in Fisherton Street (Waters & Rawlence) £510
52, Catherine Street, shop and dwelling-house, yearly rents, £27, Freehold (J. T. Woolley) £370
38, Harcourt Terrace, yearly rental £27, Freehold (J. T. Woolley) £470

WORCESTERSHIRE.

MALVERN.

"Mowbray House," Freehold residence and 4 a. (Messrs. Lear & Son) £7,000

TENBURY.

Freehold estate, comprising 32 acres with house and buildings, Rent £75 per annum (Mr. Henry) . . £[illegible]

WORCESTER.

Two Freehold house in Boughton Street, Rentals £25 7s. per annum (N. Taylor) . .. £280

YORKSHIRE

BRADFORD

Three dwelling-houses, 59, 61, 63, Park Gate, off High Street (Messrs. Suddards & Stansfield) £800
Dwelling house, 6, Wellington Street (Messrs. Suddards & Stansfield) £133
43 & 45, Crown Street (Messrs. Suddards & Stansfield) .. .. £[illegible]
9 Victoria Street, Manningham Lane (Dobson & Son) £285
8, Thornclife Square (Dobson & Son) . £360
27, Cobden Street, Freehold (Suddards & Stansfield) £209

DONCASTER.

Dwelling-house, with baker's shop, bake-house, yard and premises adjoining, situate in Fisher Gate, Freehold (J. H. Crouch) £[illegible]
11, 13 & 15, Union Street, with yard and out-buildings, Freehold (J. H. Crouch) .. £475

HALIFAX

2 Freehold cottages, 44, Green Lane, and 2, Back Green Lane (T. Atkinson) £178

LEEDS

Moor Grange farm, 75 a. 2 r. 19 p., Freehold, Rent £185 per annum (Channock, Galsworthy & Co.) £6,[illegible]
The Freehold residence, "Abbey View," and 44 a. 3 r. 36 p., estimated rental £50 per annum (Channock, Galsworthy & Co.) . £3,150
Church Farm, 26 a. 3 r. 8 p., Freehold, Rent £44 per annum (Channock, Galsworthy & Co.) £1,110

NORTH ORMESBY.

Two dwelling-houses and shops, 13 & 14, Market Place, and [illegible] dwelling-houses, 15 & 18, Market Place (Walker & Son) £420

SCARBOROUGH.

Freehold dwelling house, 31, Rothbury Street, rental £15 (Pirie & Orr) £215
Four Freehold tenements, 92 & 94, William Street, and 3 & 4, Sails Yard, gross rent £43 18s. (Pirie & Orr) £315
Three Freehold dwelling-houses, 7 & 3, St. Mary's Street, and 1, Boyes Yard, with stables, &c. gross rental £39 16s. . £[illegible]
Two semi-detached villa residences, 4 & 6, Seamer Road, rentals £71 10s. per annum (Pirie & Orr) £1,140
1, Queen's Terrace, Freehold (Pirie & Orr) . £450
29, East Sandgate, Freehold tenement (Pirie & Orr) £65
3 9, & [illegible], Mill Street, Freehold dwelling-houses (Pirie & Orr) £450
Freehold residence known as "Gordon House" in St. Martin's Square (Pirie & Orr) . £1,550
40 & 42, West Bank, Freehold (Pirie & Orr) £405
40a, 40a, & 41, Sandside, and 9, Porrett's Lane, gross rental £48, Freehold (Pirie & Orr) £350
15 & 16, Cooks Row, gross rental £28 (Pirie & Orr) £[illegible]
6, 7, 8, 9 & 10, Bedford Street, Freehold, Rental £54 per annum (Pirie & Orr) £600

SHEFFIELD

Handsworth—A plot of Freehold land containing 5 a. 0 r. 6 p., Rental £17 10s. (Nicholson, Greaves, Barber & Hastings) £500
Handsworth—A plot of 1,119 sq. yds., and a G. R. of £2 8s. 6d. (Nicholson, Greaves, Barber & Hastings) £175

WAKEFIELD

Upper Green farm 12 a. 3 r. 32 p. Freehold Rent £27 10s. 9d. (Channock, Galsworthy & Co.) £750
The Field farm 21 a. 1 r. 13 p. Freehold Rent £5 per annum (Channock, Galsworthy & Co.) .. £1,000

YORK

Murton—A close of land known as "Thomson's Field," containing 3 a. 2 r. 0 p. (R. Iddison) £[illegible]

3.—WALES.

CARNARVONSHIRE.

BANGOR

11, Dean Street (J. Pritchard) £260
31, Victoria Terrace, unexpired term 25 years, G. R. £3 (J. Pritchard) . . . £245
Royal Oak "Inn (J. Pritchard) .. £975

CARDIGANSHIRE.

Blaenporth—"Tfynonfair" farm, 82 a. 1 r. 22 p. Freehold (W. Lloyd & Son) £1,675

DENBIGHSHIRE

MOLD

Shop, dwelling house & premises at corner of High Street & Church Lane, Freehold (J. E. Davies) £450
Six cottages, 1 to 6, Bromfield Row, Freehold (J. E. Davies) £100

GLAMORGANSHIRE.

SWANSEA.

Freehold farm, cottage, mill, and out-buildings, known as "Llico Mill," area 12 a. 1 r. 2 p. of rich arable meadow and pasture land, Rent £56 per annum (E. Roberts & Son) . £1,705
03, Brynymor Road, unexpired term 61 years, G. R. £2 14s. Rent £24 (E. Roberts & Son) £330
1, 2, 3, & 4, Westbury Street, unexpired term 61 years, G. R. £2 14s. Rent £80 per annum (E. Roberts & Son) £1,295

4.—SCOTLAND.

DUMFRIESSHIRE.

The Applegarth Estate, nearly 6,000 acres in extent, rental over £6,000 .. .. £146,051

EDINBURGH

Stockbridge Park Estate sold for £42,000; being at the rate of nearly £686 per acre.

FIFESHIRE.

Lordscairnie Farm, consisting of 370 acres, Rental £637 10s. £11,000

TORRYBURN

Pow Estate, 230 acres arable, 20 acres woods and plantations .. . . £[illegible]50

FORFARSHIRE

Brechin—Kethock Estate, comprising about 567 acres, of which 517 are arable, with mansion house, farm steadings and offices, the rental of which, exclusive of the mansion-house and shooting, is £1,100; and the property of Newton Mill, consisting of a dwelling-house, two small houses and 50 acres of land (Dowell) £23,400
The Farm of Little Kethock, 67 acres (Dowell) £2,600

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INFORMATION, TABLES, ETC.

ANTIOXIDE.

Antioxide is a new material for the protection of all kinds of metal against rust, and for the preservation of wood and metal.

When mixed in proper proportion with paint, it will produce a splendid enamel at very small cost.

Its chief merit is its marvellous durability, and its resistance against all kinds of injurious actions, it has been tried with splendid result against the action of the most powerful acids.

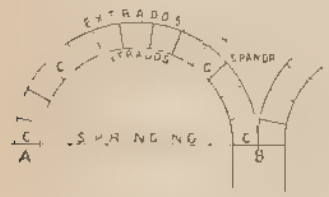
Antioxide is quite transparent like the best varnish

THE ARCH.

By George Fleetwood, F.S.I.

An Arch is a structure composed of separate inelastic bodies having the shape of truncated wedges, and the vertical forces due to the weight of the materials are transmitted to the supports or abutments in a curved line, known as the curve of equilibrium

The separate parts of an Arch are—



Abutment A Pier B. The points of support or of resistance to the forces of the Arch.

Voussiors C The separate stones of which the Arch is composed—the lower ones being the springers, and the highest or middle one, the key stone

Intrados. The inner surface or soffit.

Extrados. The outer surface or back.

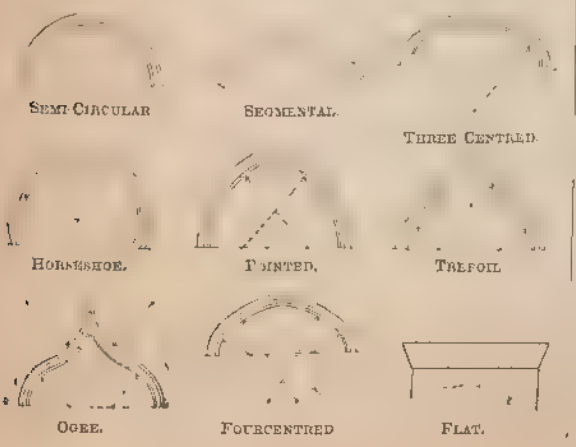
Springing. The point at which the Arch joins the piers

Haunch. The sides between the springing and the crown.

Span. The width between the supports at the springing line.

Rise. The vertical distance between the springing and the crown.

Arches are named from the curve, or under surface, presented by a section. The following figures show the usual form of Arches,—



When two or more Arches intersect they are called groined arches.

Inverted Arch. When placed under an opening or space to distribute the pressure.

Relieving Arch. When placed over a lintel to relieve it of the weight of the wall above.

Trimmer Arch. When built under the hearth of a fire-place.

Strength of Arches. For ordinary spans, and for ordinary purposes, the thickness of the Arch ring, as well as the dimensions of the abutments necessary to resist the thrust of the Arch, have been sufficiently determined by actual practice, and there is generally no necessity for calculating them.

The following is a table of thickness for Arches, in ordinary use in the War Department :—

TABLE OF THICKNESS REQUIRED FOR ARCHES.

Semi circular Arches and Arches of 120 Degrees.

The Arches are assumed to be built in well made hydraulic lime mortar.

The Bomb-proof Arches are considered sufficiently strong to bear any quantity of covering; but if the covering be not sufficient to protect them from actual contact with the bomb the thickness of the Arches may be required to be increased.

ORDINARY VAULTS, BRIDGES, &c.

	Semi-Circular.			Arches of 120 Deg.		
Span up to	Block Stone.	Brick	Rubble Stone.	Block Stone	Brick	Rubble Stone.
ft	ft. in.		ft. in.	ft in		ft in
5	0 8	1	0 10	0 9	1	0 10½
6	0 9	1	0 11	0 10	1	1 0
8	0 10	1	1 0	0 11	1½	1 1½
10	0 11	1½	1 1½	1 0	1½	1 3
12	1 0	1½	1 3	1 1	1½	1 4½
14	1 1	1½	1 4	1 2	1½	1 5
16	1 2	1½	1 5	1 3	2	1 7
18	1 3	2	1 6	1 4	2	1 8
20	1 4	2	1 7	1 5	2	1 9
22	1 5	2	1 8	1 6	2	1 10½
24	1 6	2	1 9	1 7	2½	2 0

BOMB PROOF ARCHES.

	Semi-Circular.			Arches of 120 Deg.		
Span up to	Block Stone.	Brick.	Rubble Stone.	Block Stone.	Brick	Rubble Stone
ft	ft. in		ft in	ft. in.		ft in
5	0 9	1	0 11	0 10	1	1 0
6	0 10	1	1 0	0 11	1½	1 2
8	1 0	1½	1 1½	1 1	1½	1 4
10	1 1½	1½	1 3	1 2	1½	1 6
12	1 5	1½	1 4	1 4	2	1 8
14	1 4	1½	1 6	1 5	2	1 10
16	1 5	2	1 8	1 6	2½	2 0
18	1 6	2	1 10	1 7	2½	2 1½
20	1 7	2½	2 0	1 9	3	2 3
22	1 8	2½	2 1	1 10½	3	2 4½
24	1 9	3	2 3	2 0	3	2 6

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REGULATIONS AS TO ARCHES IN BUILDING ACT, 1855.

SEC. XXIV.—*Party Arches over Public Ways.*

Every party arch, and every arch or floor over any public way, or any passage leading to premises in other occupation, shall be formed of brick, stone, or other incombustible materials: If an arch of brick or stone is used, it shall, in cases where its span does not exceed 9 feet, be of the thickness of 4½ inches at the least, but when its span exceeds 9 feet be of the thickness of 8½ inches at the least; If an arch or floor of iron or other incombustible material is used, it shall be constructed in such manner as may be approved by the District Surveyor.

SEC. XXV.—*Arches under Public Ways.*

Every arch under any public way shall be formed of brick, stone, or other incombustible materials: If an arch of brick or stone is used, it shall, in cases where its span does not exceed 10 feet, be of the thickness of 8½ inches at the least; where its span does not exceed 15 feet, it shall be of the thickness of 13 inches at least; and where its span exceeds 15 feet, it shall be of such thickness as may be approved by the District Surveyor: If an arch or other construction of iron or incombustible material is used, it shall be constructed in such manner as may be approved by the District Surveyor.

ASPHALTES.

Asphalte requires to be laid on a good bed of concrete, and is spread in a liquid state and rubbed to a smooth surface; or it is ground to powder, spread, and consolidated by ramming.

The bed for receiving asphalte must be thoroughly dry, and where it is to be attached to sloping or vertical faces the ground should be rough and a good key provided.

The most valuable deposits of asphalte stone are in the Val de Travers, Canton of Neufchatel; in the neighbourhood of Seyssell, department of Ain; at Bechelbrown, in Alsace; Limmer, near the city of Hanover, and Hölle in Ditmarschen, in Holstein, &c

BRICKWORK.

	Size.	Weight	per 1,000
London Stocks	8¾ × 4¼ × 2¾ inches	6·8 lbs.	60¾ cwt.
Red Kiln	8¾ × 4¼ × 2¾ ,,	7·0 lbs.	63 ,,
Welsh Fire Bricks	9 × 4½ × 2¾ ,,	8·0 ,,	72 ,,
Paving Bricks	9 × 4½ × 1¾ ,,	5·0 ,,	45 ,,
Dutch Clinkers	6¼ × 3 × 1½ ,,	1·5 ,,	14 ,,

The thickness of walls is regulated by the size of the bricks, and walls are 4½ inches or half-brick thick, 9 inches or one brick thick, 14 inches or one and a half bricks thick The standard thickness of reduced brickwork is 14 inches or 1½ bricks.

One rod of brickwork equals 272 ft. super of reduced brick work; or 408 feet super of one brick walling, or 306 feet cube of brickwork (viz, 235 feet of bricks and 71 feet of mortar), or 11⅓ cubic yards; and requires 1 cubic yard of stone lime and 3½ yards of sand; or 1½ yards of chalk lime and 3 yards of drift, or 36 bushels of cement and 36 bushels of sharp sand; and takes 4,300 stock bricks, or 4,500 place bricks, or 5,370 stock bricks laid dry, or 4,900 stock bricks laid dry in wells and circular cesspools; it weighs about 15 tons, and requires about 130 gallons of water to mix the mortar.

To reduce brickwork to standard thickness, deduct one-third of 9-inch walls, one-ninth of cubic foot of brickwork

There are 500 stock bricks to one load, 1,000 stock bricks to about 55 feet cube, 1,000 old bricks cleaned and stacked to about 70 feet cube, 16 bricks to one foot of reduced brickwork, 7 bricks to one foot super of facing, 10 bricks to one foot super of gauged arches, 45 bricks to one yard super in bricknogging laid flat, and ¾ of a cubic foot of mortar; 30 bricks to one yard super in bricknogging on edge, and ½ of a cubic foot of mortar, 36 stock or paving bricks laid flat to one yard super of paving, 52 bricks laid on edge to one yard super of paving, 82 paving bricks on edge to one yard of paving, 125 Dutch clinkers laid flat to one yard super, or 140 Dutch clinkers on edge, or 136 Dutch clinkers, herring-bone

In dry weather the bricks should be thoroughly soaked before laying, to remove the particles of loose dust and prevent the absorption of the moisture in the mortar.

In a day of 10 hours a bricklayer can lay about 1,500 or 1,600 bricks, where the joints are left rough, about 1,000 when both faces are worked fair, or 500 when carefully pointed and faced with picked bricks.

Amongst the best varieties of red facing bricks in the London market may be mentioned the Hampshire bricks, known as the Fareham Reds, and the Rowlands Castle Red facings, which are of excellent weathering qualities and colour, and the Rowlands Castle bricks are especially hard, strong and non-absorbent

CARBOLINEUM AVENARIUS.

Carbolineum Avenarius is a fluid, which by its own action (be it by painting or by immersing wood in C. A.), will penetrate into the wood, and thoroughly protect it against decay, fungus, &c.

As it does not stop up the pores of the wood, there will be no danger of *dry-rot*, so commonly met with in wood which has been tarred, painted or creosoted.

Its application is extremely simple, requires no skill, and it can be applied in any position

It is most useful for existing structures (sheds, posts, fencing, piles, &c., &c.) which may already show signs of coming decay

The cost of applying the Carbolineum is so cheap, as to be of no account against the enormous saving effected by it.

Carbolineum is also a protection against dampness in walls, and deadly enemy against all kinds of insects and vermin.

CHAINS, BREAKING WEIGHT OF

To find the breaking weight in tons, divide the square of the diameter of one bar of the links in 16ths of an inch by 10 linked chains, and by 11 for studded chains.

Safe Working load of Chains 1-6th breaking weight.

Linked.				Studded.			
Diameter of Link	Safe Load	Diameter of Link	Safe Load	Diameter of Link	Safe Load	Diameter of Link	Safe Load
Ins	Tons.	Ins.	Tons	Ins.	Tons.	Ins	Tons
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

CHIMNEYS, FLUES HEARTHS, &c.

(*Building Act, 1855.*)

Chimneys built above the ground floor level, must not project from the wall more than the thickness of the wall, and must be constructed on corbels of brick, stone, or other incombustible material.

Chimneys and flues with doors 6 inches square may be constructed at any angle, otherwise at not less than 130 degrees, and must be properly rounded.

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An arch of brick or stone or a bar of wrought iron must be built over every chimney opening. If the breast project more than 4½ inches, and the jambs be of less width than 17½ inches, they must be tied in by an iron bar turned up and down at ends and built in 8½ inches on each side.

The back of every chimney opening from the hearth up to a height of 12 inches above the mantel, must be 8½ inches thick if in a party wall, or 4½ inches if not in a party wall.

The thickness of the upper side of every flue at an angle less than 45 degrees must be at least 8½ inches.

Chimney shafts must be carried up to a height not less than 3 feet above the roof, flat or gutter adjoining, measured at the highest point in the line of junction.

Chimney shafts, excepting those of furnaces of any engine manufactory, &c., if exceeding in height six times the least width, shall be built with or bonded to another chimney not in the same line, or otherwise rendered secure

Every chimney opening must have a hearth of stone or other incombustible material 12 inches at least longer than the width of opening, and 18 inches wide in front of breasts. On all floors above the lowest floor, it must be laid wholly upon stone or iron bearers, or upon brick trimmers. The hearth of every chimney must be bedded solid on brick or other incombustible materials, and be solid for a thickness of 7 inches at least.

No chimney breast or shaft built with, or in any party wall, may be cut away without the District Surveyor's certificate that it may be safely done.

No timber or woodwork may be placed nearer than 12 inches to the inside of any flue or chimney opening. Under any chimney opening within 18 inches from the upper surface of the hearth Within 2 inches from the face of chimney or flue, where the substance of the brickwork or stonework is less than 8½ inches thick, unless the face of the brickwork or stonework is rendered. No wooden plugs may be driven nearer than 6 inches to the inside of any flue or chimney opening, nor any iron fastening nearer than 2 inches

CLOSE FIRES, PIPE FLUES, &c

(Building Act, 1855. Amendment, 1882.)

The floor under and 18 inches around, every stove or oven used for trade, shall be of incombustible and non-conducting materials.

No pipe conveying smoke, heated air, steam, or hot water, may be fixed against any building on the face next to any street, alley, mews, or public way. No pipe conveying heated air or steam, except at low pressure, may be fixed nearer than six inches to combustible materials; if conveying hot water, nearer than three inches; if conveying smoke or products of combustion, nine inches.

CONCRETE.

Concrete in damp situations should be made with hydraulic lime or Portland cement, and in walls, steps, pavements, &c., of Portland cement Concrete was formerly thrown into trenches from a height of ten feet above to consolidate it. The effect, however, was to separate the light and heavy portions in the fall, and this plan is now abandoned. Layers of concrete in trenches should be allowed to set before other layers are added, when time will not allow of this they should be well rammed at once before having time to set, but after commencing to set should not be disturbed.

CIRCLES—CIRCUMFERENCES AND AREAS OF.

To find a circumference of a circle of greater diameter, divide into two or more parts, and add together their tabulated circumferences.

To find area of a circle, whose diameter is double that of any in the table, multiply the tabulated area by four, if three times by nine, and so on.

Dia.	Cir.	Area.	Dia.	Cir.	Area.
1	3 14	·785	11	34 55	95·03
¼	3 93	1·23	¼	35 34	99·40
½	4 71	1·77	½	36 12	103 87
¾	5 50	2 40	¾	36 91	108·43
2	6 28	3·14	12	37 69	113·09
¼	7·07	3 98	¼	38·48	117 86
½	7 85	4 90	½	39 27	122·72
¾	8 64	5 94	¾	40 05	127·66
3	9 42	7 06	13	40·84	132·73
¼	10 21	8 29	¼	41 62	137 88
½	10 99	9 62	½	42 41	143 14
¾	11 78	11 04	¾	43 19	148 49
4	12 56	12 56	14	43·98	153 94
¼	13 35	14 18	¼	44 76	159 48
½	14 13	15 90	½	45·55	165 13
¾	14 92	17 72	¾	46 33	170 87
5	15 70	19 64	15	47 12	176·71
¼	16 49	21 65	¼	47 90	182 65
½	17 27	23 76	½	48 69	188 69
¾	18 06	25 97	¾	49 48	194 82
6	18 84	28 27	16	50 26	201 06
¼	19 63	30 68	¼	51 05	207·39
½	20 42	33 18	½	51 83	213·82
¾	21 20	35 78	¾	53 62	220·35
7	21 99	38 48	17	53 40	226 98
¼	22 77	41 28	¼	54 19	233 70
½	23 56	44 18	½	54 97	240 53
¾	24 34	47 17	¾	55 76	247 45
8	25 13	50 26	18	56 54	254 57
¼	25 91	53 46	¼	57 33	261 58
½	26 70	56 74	½	58 11	268·80
¾	27 48	60 13	¾	58 90	276 11
9	28 27	63 62	19	59 69	283 53
¼	29 05	67 [illegible]	¼	60 47	291·04
½	29 84	70 88	½	61 26	298·64
¾	30 63	74 62	¾	62 04	306 35
10	31 41	78 54	20	62 83	314 16
¼	32 20	82 52	¼	63 61	322 06
½	32 98	86 [illegible]	½	64 40	330 06
¾	33 77	90·76	¾	65 18	338·16

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CONDITIONS OF BUILDERS' CONTRACTS.*

Sanctioned by The Royal Institute of British Architect.

1.—The Contractors are to provide everything of every sort and kind which may be necessary and requisite for the [illegible] proper execution of the several works [illegible] according to the true intent and meaning of the drawings [illegible] specification taken together, which are to be signed by the Architect and the Contractor, whether the same may or may not be particularly described in the specification or shown on the drawings, provided that the same are reasonably and [illegible] inferred therefrom and in case of any discrepancy between the drawings and the specification the Architect's decision shall be followed.

2.—The Contractors are to conform in all respects to the provisions and regulations of the Metropolis Management Act and the Metropolis Building Act and to the regulations and byelaws of the Metropolitan Board of Works and the local authorities, and they are to give all notices required by the said Acts or any of them, and to pay all fees payable by them of the said Acts to any such authorities, or to any public officer in respect of the works.

3.—The Contractors are to do the whole of the work including the processes of the works to amend, on the requisition of the Architect, any defects which may arise or be found to prevail, [illegible] necessary expenses or fees for the [illegible] workmen to execute the various trades [illegible] The Contractors are to provide all plant, labour and materials which may be necessary for the execution of the works and to remove the last of their rubbish [illegible] and the Contractors are to leave the works in the specified and perfect state and condition in every respect.

4.—Copies of the drawings and specifications signed by the Architect are to be kept on the building, and a Measuring Surveyor to the Contractors for the purpose of measuring and taking stock of the work is to be kept on the building, and a competent foreman, who is to be constantly kept on the ground by the Contractors, and to whom instructions may be given by the Architect. The Contractors are not to employ at the works any person therein, who shall be considered by the Architect.

5.—The Architect is to have at all times access to the works, and to be entitled to reject any materials or workmanship which in his opinion are not in accordance with the specification, and the Contractors to dismiss any person employed upon the works who may be incompetent or misconduct himself, and the Contractors are forthwith to comply with such requirements.

6.—The Contractors are not to vary or deviate from the drawings or specifications or execute any extra work of any kind whatsoever, unless the same be required by any of the provisions of any of the Acts of Parliament regulating or affecting the premises hereinbefore mentioned, or unless upon the authority of the Architect to be sufficiently shown by any order in writing or by any plan or drawing expressly given and signed or initialed by him as an order for variation, or by any subsequent written approval signed or initialed by him. In cases of any work additional to or in lieu of the work to be delivered to the Architect or Clerk of the works at latest during the week following that in which the work may have been done, and only such extra work is to be allowed as such as may have been authorised by the Architect to be so done, unless the work cannot from its character be properly measured and valued.

7.—No extra work given by the Architect for any alteration or addition in or to the works is not to vitiate the Contract but such additions, omissions or variations may be carried out the works for which a price may not have been previously agreed upon are to be measured and valued, and certified by the Architect, and added to or deducted from the amount of the contract as the case may be, according to the Schedule of Prices annexed, or where the same may not apply at fair measure and value.

8.—All work and materials brought and left upon the ground by the Contractors or by their orders, for the purpose of forming part of the works, are to be considered to be the property of the Employer when payment shall have been made of the amount of any certificate in which the value thereof shall be included, and in such case the same are not to be removed or taken away by the Contractors, or any other person, without the special sanction and consent of the Architect, but the Employer is not to be in any way answerable for any loss or damage which may happen to, or in respect of, any such work or materials either by the same being lost or stolen, or injured by weather or otherwise.

9.—The Architect is to have full power to require the removal from the premises of all materials which in his opinion are not in accordance with the specification, and, in case of default, the Employer is to be at liberty to employ other persons to remove the same without being answerable or accountable for any loss or damage that may happen to such materials, and the Architect is also to have full power to require other proper materials to be substituted; and in case of default, the Employer may cause the same to be supplied, and all costs which may attend such removal and substitution are to be borne by the Contractors.

10.—Should any of the works be, in the opinion of the Architect, executed with improper materials or defective workmanship, the Contractors are, when required, on the Architect's [illegible] to proceed with the work forthwith to remove the same and to substitute proper materials and workmanship in lieu of what is thus condemned, and the contract is to be proceeded with in accordance therewith. The Architect is to have full power to employ other persons to re-execute the work, and the cost thereof is to be borne by the Contractors.

11.—Any defects, skrinkage, and other faults which may appear within months from the completion of the building, and arising out of defective or improper materials or workmanship, are, upon the direction of the Architect, to be amended and made good by the Contractors, at their own cost, unless the Architect shall decide that they ought to be paid for the same, and, in case of default, the Employer may recover from the Contractors the cost of making good the works.

12.—The Contractors are to insure the building against loss or damage by fire in an office to be approved, in the joint names of the Employer and Contractors, for half the value of the works executed, until it shall be covered in, and thenceforth until completion in three-fourths of the amount of such value, and are, upon request, to produce to the Architect the policies and the receipts for the premiums for such insurance. All moneys, received under any such policies, are to be applied in or towards the rebuilding or reparation of the works destroyed or injured. In case of neglect the Employer is to be at liberty to insure and deduct the amount of the premiums paid from any moneys payable to the Contractors.

13.—The building, from the commencement of the works to the completion of the same, is to be under the Contractors' charge, they are to be held responsible for and to make good all injuries, damages and repairs, occasioned or rendered necessary to the same by fire or causes over which the Contractors shall have control, and they are to hold the Employer harmless from any claims for injuries to persons or for structural damage to property happening from any neglect, default, want of proper care or misconduct, on the part of the Contractors, or of anyone in their employ, during the execution of the works.

14.—The Employer is at all times to have free access to the works, and is to have full power to send workmen upon the premises to execute fittings and other works not included in the contract, for whose operations the Contractors are to afford every reasonable facility during ordinary working hours, provided that such operations shall be carried on in such a manner as not to impede the progress of the works included in the contract, but the Contractors are not to be responsible for any damage which may happen to or be occasioned by any such fittings or other works.

* The prices at the back of the Architect's Diaries are published by permission of the Council of the Royal Institute of British Architects and can be obtained at the Institute price 1 each.

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[illegible] The Contractors are to complete the whole of the works (except painting and papering or such other works as the Architect may [illegible] calendar months [illegible] of the commencement of the same unless the works be [illegible] by [illegible] weather or causes not under the Contractors control or in case of combination of workmen or strikes, or [illegible] and then the Contractors [illegible] the Architect, and [illegible] the Contractors [illegible] Employer [illegible] way of liquidated and agreed damages, the sum of £ per week for every week during which they shall be so in default, until the whole of the works (except [illegible] completed within the time appointed.

[illegible] Contractors shall be [illegible] or compound with or make any assignment for the benefit of their creditors or [illegible] the Architect [illegible] of the contract [illegible] or on [illegible] under any pretence [illegible] any pieces [illegible] in any neighbouring property or in [illegible] the Employer, or the Architect, [illegible] the works to be performed with, and in [illegible] days, it shall be lawful for the [illegible] any other person or persons to carry on [illegible] the same [illegible] property of the Contractors upon the works, [illegible] in carrying [illegible] the said works are to be paid to the Employer by the [illegible] Contractors.

When the [illegible] of the works executed [illegible] in any former certificates shall from time to time amount to the [illegible] or otherwise at the Architect's [illegible] in the Contract are to be entitled to receive payment at the [illegible] per cent [illegible] the Contractors are to be entitled to receive payment of the full value of all works executed and not included in any former payment, and the Architect is to give to the Contractors certificates [illegible] the best estimate of the same that can then be [illegible] Architect's [illegible] the Contractors certificates [illegible] and the Contractors are to be entitled to receive the [illegible] months from the completion of the works [illegible] Contractors are to be entitled [illegible] and paper [illegible] thereof. Provided always that no final or [illegible] Contractors [illegible] of Clause No. 11, whether or not the same be notified by the Architect at the time or subsequently to granting any such certificate.

18.—A certificate of the Architect, or an award of the Referee hereinafter referred to, as the case may be, showing the final [illegible] or payable to the Contractors [illegible] the works having been duly completed, or that the Contractors are entitled to receive payment of the final balance, but without prejudice to the liability of the Contractors under the provisions of Clause No. 11.

If the Employer shall make default in paying [illegible] to which the Contractors may become entitled for days after the amount thereof shall have been certified, or if the works be delayed for months by or under any proceedings taken [illegible] Contractors [illegible] to suspend the works, and to require payment for all works executed and [illegible] may sustain upon any goods or materials purchased for the works, and in such [illegible] Contractors are to be entitled to [illegible] further with the works contracted for. The Contractors are to be entitled to such interest and at such rate as the Architect shall certify upon all moneys payable to the Contractors, payment of which may have been [illegible]

[illegible] dispute, or difference shall arise between the Employer, or the Architect on [illegible] contract [illegible] any right or claim to be made to the moneys of the contract by reason [illegible] Contractors or by reason or on account [illegible] direction or requisitions of the [illegible] the cost properly attending the carrying out the contract according [illegible] as to the works having been duly completed or as to [illegible] out of this contract [illegible] matters [illegible] the Architect under Clauses Nos. [illegible] or in case [illegible] certificate [illegible] Clause No. [illegible] such question [illegible] or [illegible] to the arbitration and final decision of Architect, or in the event of his death or unwillingness to act, then of* [illegible] Following the Royal [illegible] Contractors are to [illegible] accordingly [illegible] respectively shall be in the discretion of the Referee or Arbitrator who may determine the amount thereof or direct the same to be taxed, as between [illegible] and direct by whom and to whom and in what [illegible] shall be borne and paid, and this submission may be made a Rule of any Division of the High Court of Justice upon the application of either party, who may instruct Counsel to consent thereto for the other party without any notice being given to such party.

* This blank should be filled in with the name of a Fellow of the Institute.

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CONTRACTS.

By H. G. DALLIMORE, *Solicitor.*

Generally.—The word "agreement" in law is synonymous with the word "contract."

Contracts are of three kinds

1. Contracts of record, *i.e.*, judgments of Courts of Law
2. Contracts by speciality, *i.e.*, by instruments in writing and under seal, *i.e.*, deeds, and
3. Simple contracts, *i.e.*, contracts in writing *not* under seal, or by word of mouth. Both these are called parol contracts.

Simple Contracts.—There are three essential elements in all simple contracts or agreements. 1. The consent. 2. The consideration. 3. The promise.

1. The consent is the legal term for both parties being of "one mind" as to the subject of the contract. They must absolutely agree as to the thing to be done or supplied, not only in substance but in all its details. Unless there be this absolute "consensus," there can be no complete or enforceable contract.

2. The consideration is that which one party is willing, and binds himself, to do or give in exchange for what the other party will do or give.

3. The promise is the engagement of one party to do or pay something for what the other engages to do or pay.

Simple contracts may be made by letters, and when, as the result of all the correspondence, the parties have arrived at one mind on all three of the above mentioned essential elements, a complete contract is formed and can be enforced.

Sometimes two letters only constitute a contract, and therefore a letter in reply to one offering terms, accepting those terms will constitute an agreement or contract. But if the second letter, while accepting the terms proposed by the first, adds something fresh, or "a new term," as it is called, then there is no contract. To make a contract by two letters, the second must unequivocally accept the terms proposed without adding any condition.

Pending the acceptance of an offer each party has a right to withdraw. When the offer is made by letter, the withdrawal must reach the person to whom the offer is made before the letter accepting it is posted

When Contracts must be in Writing—An agreement for a Building Lease must be in writing; also agreements for the sale of any interest in land, and agreements not to be performed within a year.

Performance within a Year.—A contract to build, if it is to be performed within a year, need not necessarily be in writing.

An agreement to be performed within a year is one possible of performance within that time, though it may not actually be so performed An agreement not to be performed within a year is one in which its performance within that time is not contemplated by either of the agreeing parties, though it may be so performed

Contract for Sale of Goods—An agreement for the sale of goods of the value of £10 and upwards must be in writing, or it can only be enforced if the party agreeing to purchase accept and receive part of the goods, make a part payment, or give something equivalent to part performance of the agreement.

Contracts with Public Bodies.—Contracts with a Corporation must be under seal, unless the work to be executed is rendered necessary by the purpose for which the Corporation is created.

Trustees of building funds, and persons acting in a corporate capacity, entering on a contract accept a personal liability. A contract, however, may contain restrictions limiting their liability to the time during which they are to hold office, and to the amount of the fund at their disposal.

Contracts contrary to Law—A contract contrary to law cannot be enforced

Damages and Penalties—Where a contract stipulated for *penalty* for non-completion by a given time, and the time was exceeded, the Courts have refused to allow the full penalty to be enforced, but only allowed the damages actually sustained.

The sum stipulated for in a contract may be recovered as a debt, or, except in the case of a bond, full damages exceeding the penalty are recoverable, the penalty being regarded as auxiliary to a contract. If, however, the delay arises through any action of the employer, and there be no special stipulation to the contrary, he cannot recover damages in respect of such delay.

Daily and weekly damages for delays in building works are debts that may be set off against the sum due to the builder whether so stipulated or not; or they may be recovered.

Payments under Contracts.

1. *Slight Deviation, &c., from Plans and Specification.*—A builder will not be prevented from recovering payments under the contract owing to slight deviations and omissions from plans and specifications, if the building has otherwise been substantially completed; but the employer may make a sufficient deduction to effect the alteration on completion of the work.

2. *Payment—Certificate precedent to.*—A builder cannot maintain a claim upon the contract in the absence of an architect's certificate, which was a condition precedent to payment, notwithstanding it may have been wrongfully withheld, unless it can be proved that the architect was fraudulently in collusion with the employer, and by his procurement refused to certify.

3. *Under Unperformed Contracts.*—If a building contract remains unperformed by the fault of the builder he cannot maintain an action for payment for any part of his work, notwithstanding the issue of the architect's certificate, but the whole must be completed before he can sue for payment, except where a contract is entered into for the work to be paid for by measure and value, in which case he can demand payment during progress.

Rescind—Right to.—Where either party to a contract refuses in an *unqualified* manner to perform his part of the contract, or is unable to perform it, the other party may rescind the contract

If an employer, or another by his order, obstructs and prevents the performance of a contract, the builder is at liberty to insist upon his rights, or to rescind the contract and recover damages, viz., the difference between the cost to himself of the work and the amount of the contract, allowing a fair deduction for the unexecuted work.

If the builder refuses or fails to proceed with and complete his contract, the employer may determine the contract and proceed for damages.

Where a provision is contained in a contract giving power to the architect to determine it on default of a builder, his certificate is conclusive

DAMP PROOFING

Hygeian Rock is a damp proof composition, used as damp course; in walls built in two thicknesses, with a half-inch cavity into which the composition is poured in a liquid state, as the work proceeds; and as a lining to damp walls, applied in combination with purposely made tiles It is especially adapted for the construction of cellar walls and water-tight tanks. Walls built with this composition are said to be of double the strength of ordinary brickwork.

The damp proof courses mostly in use are (1) Mineral asphalte half-inch thick, (2) asphalted felt, (3) perforated stoneware bricks and two courses of slate in cement. Slates, however, are liable to crack, and hence not so suitable as the other damp courses.

Szerelmey Stone Liquid is a waterproofing composition which combines mechanically with stone, or other masonry, filling up the interstices between its molecules with a durable substance impassable by moisture, and is unaffected by any of the influences which could injure stone.

DISTRICT SURVEYORS.

NOTICES BY BUILDER.

Two Days' Notice. (1) Before commencing building or any work to, in, or upon, any buildings. (2) Before re commencing if work has been suspended three months. (3) In the event of change of builders, before new builder enters on the continuance of work.

Notices must be in writing, stating situation, area, and height, and intended use of building or work, and the number of such buildings if more than one.

The penalty for failing to give notice, and for commencing work before the expiration of two days is £20. In cases of emergency, however, work may be commenced and notice be given within twenty-four hours after the commencing of such work.

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DISTRICT SURVEYORS.

LIST OF.

DISTRICT.	NAME.	DISTRICT OFFICE.	OFFICE HOURS
1 Eastern Division of the City of London	HYMAN HENRY COLLINS	15, Fenchurch-street, E.C.	[illegible] 4
2 Southern Division of the City of London	EDWARD POWER	16 and 17, King William-street, E.C.	10 to 4
3 Western Division of the City of London	HUGH MCLACHLAN	29, Furnival-street, Holborn, E.C.	[illegible] 4
4 Northern Division of the City of London	[illegible]	1, Crown-place, London Wall, E.C.	10 to [illegible]
5 St. George, Hanover-square North	THOMAS HENRY WATSON	[illegible] ndult-street, Regent-street, W	10 to 4
6 Belgrave & Pimlico Div., St. George, Hanover-sq.	WILLIAM ALFRED LARGE	[illegible] and 83, Chester-square, Pimlico, S.W.	10 to 4
7 St. James, Westminster	ROBERT [illegible]	[illegible], Old Burlington-street, W.	10 to 4
8 St. Martin in the Fields and St. Anne, Soho	ROBERT WALKER	1, St. Martin's-place, Trafalgar-square	10 to 4
9 St. Margaret and St. John the Evangelist, and the Close of Collegiate Church of St. Peter	EDWARD DEU DRURY	25, Queen Anne's-gate, Westminster, S.W.	10 to 4
10 South St. Marylebone	ARTHUR ASHWORTH	10, Upper Baker-street, N.W.	10 to 4
11 North St. Marylebone	FREDERICK WALLEN	96, Gower-street, W.C.	10 to 4
12 St. Pancras, West	ALFRED BOVILL	30, Grove-terrace, Highgate-road, N.W.	10 to 4
13 St. Pancras North	VINCENT JOHN GROSE	26, Werrington-street, Oakley-square, N.W.	10 to 4
14 St. Pancras East	HORACE GUNDRY	15, Gloucester-crescent, Bishops-road, W.	10 to 4
15 Paddington	FREDERIC HAMMOND	2, Mercers-road, Upper Holloway, N.	10 to 4
16 North-west Islington	GEORGE MCDONELL	2, Arundel-square, Islington, N.	10 to 4
17 South-west Islington	JOHN TURNER	56, Tolington-park, N.	9 to [illegible]
18 East Islington	HENRY LOVEGROVE	261, Upper-street, N.	10 to 4
19 South Islington	ERNEST CARRITT	3, Wilmington-square, Clerkenwell, W.C.	10 to 4
20 Clerkenwell (St. James and St. John) and part of Islington	HENRY JOHN HAMMON	[illegible] Finsbury Pavement, E.C.	9 to 5
21 St. Luke, Old St., & Liberty of Glasshouse-yard	CHARLES FORSTER HAYWARD	47, Museum-street, Bloomsbury, W.C.	10 to 4
23 St. Giles-in-the-Fields & St. George, Bloomsbury Holborn and East Strand, including St. Andrew, Holborn, above Bars, St. George-the-Martyr, the Liberty of the Rolls, the Liberty of Saffron-hill, Hatton-garden, and Ely-rents, St. Clement Danes, St. Mary-le-Strand, the Savoy Precinct, St. Sepulchre without, and St. Paul, Covent-garden	FREDERICK WILLIAM PORTER	28, Great Ormond-street, W.C.	10 to 4
24 St. Mary, Stoke Newington	JOSEPH DOUGLASS MATHEWS	169, Church-street, Stoke Newington, N.	10 to 4
25 St. Leonard, Shoreditch, and the Liberty of Norton-folgate	CHARLES FOWLER	314, Old-street, E.C.	10 to 4
26 St. Matthew, Bethnal-Grn., East, & South Bow	EDWARD STREET	55, Approach-road, Victoria-Park, E.	10 to 4
27 St. Matthew, Bethnal-Green West	ROBERT PLEDGE NOTLEY	11, Paradise-row, Bethnal green-road, E.	10 to 4
28 East Hackney North	FREDERICK RICHARD MERSON	21 Powerscroft-road, Lower Clapton, E.	10 to 4
29 East Hackney South, and North Bow	ALEXANDER PAYNE	10, St. Thomas's Square, Mare street, E.	10 to 4
30 West Hackney	GEORGE LEGG	53, Dalston-lane, E.	10 to 4
31 Mile End Old Town	HENRY SIMPSON LEGG	13, Grafton-street, Mile End-road, E.	10 to 4
32 St. George-in-the East, St. Botolph without Aldgate, and St. Paul, Shadwell	SAMUEL STENTON MARKHAM	50, High-street, Shadwell, E.	10 to 4
33 St. Mary, Whitechapel, Christ Church, Spitalfields, and the Hamlet of Mile-end New-town, and the Tower Liberty	HARRY OLIVER	80, Leman-street, Whitechapel, E.	10 to 4
34 St. Anne, Limehouse St. John, Wapping, the Precinct of St. Katherine, and the Hamlet of Ratcliff	HENRY WM. STOCK	586, Commercial-road East, E.	10 to [illegible]
35 All Saints, Poplar	JOHN CLARKSON	146, High street, Poplar, E.	10 to 4, and by appointment
36 St. Leonard, Bromley	CHESTER FOLKSHAM	105, High street, Bromley, E.	10 to 4
37 S. Div. of Lambeth and part of Camberwell	HENRY PARSONS	86, Shakspeare-road, Loughborough Junction	10 to 4 and by appointment
38 West Newington, and part of Lambeth	BANISTER FLETCHER	7, [illegible]	10 to 4
39 East Newington and part of St. George-the-Martyr, Southwark	GEORGE LANSDOWN	[illegible]	10 to 4
40 Central Lambeth and part of Battersea	JOHN ALEX. JAS. WOODWARD	10, Crown-villas, Kennington-oval, S.E.	10 to 4, 12 till 2 Saturday
41 Lower Norwood	PERCY HUNTER	8, Knight's-hill-road, S.E.	10 to 4
42 St. Giles, Camberwell	HENRY JARVIS	33, Talfourd-road, Camberwell, S.E.	10 to 5
43 St. Mary Magdalen, Bermondsey, and St. John, St. Olave and St. Thomas, Southwark	THOMAS BARNES WILLIAMS	24, Railway Approach, London Bridge, S.E.	10 to 4
44 St. Saviour, St. George-the-Martyr (part) and Christ Church, Southwark, and the Northern Division of Lambeth	EDWIN RICHARD HEWITT	182, Blackfriars-road, S.E.	10 to 4
45 St. Mary, Rotherhithe, & part of Camberwell	ALEXANDER ROSE STENNING	119, Deptford Lower-road, S.E.	10 to 4
46 Hatcham, or the portion of St. Paul, Deptford, in Surrey	AUGUSTUS WILLIAM TANNER	85, New Cross-road, S.E.	10 to 4
47 North East Deptford	JOHN BALDRY REDMAN	493, New Cross-road, S.E.	10 to 4
48 South East Deptford	WILLIAM HEWSON LEES	70, Lewisham High-road, S.E.	10 to 4
49 Greenwich	BENJAMIN TABBERER	Lecture Hall, Royal-hill, Greenwich, S.E.	10 to 4
50 Charlton, Lee and Kidbrooke	WALTER LEWIS SPIERS	5, Lee-road, S.E.	10 to 4
51 Plumstead and Eltham	THOMAS BATTERBURY	156, Burrage-road, Plumstead	[illegible]
52 Woolwich	ALFRED [illegible]	Parsons' Hill, Woolwich	10 to 4
53 Fulham	ANDREW MOSELEY	Churchfield House, King's-road, Fulham, S.W.	at residence before 9 & aft. 5
54 Hammersmith	THOMAS EDWARD KNIGHTLEY	2, The Grove, Hammersmith, W.	9 to 5
55 North Chelsea	SAMUEL FLINT CLARKSON	4, Sydney-street, Chelsea, S.W.	10 to 4
56 South Chelsea	THOMAS EDWARD MUNDY	301, King's-road, Chelsea, S.W.	10 to 4
57 South Kensington	ALFRED WILLIAMS	17, Onslow-gardens, Brompton, S.W.	10 to 4
58 East Kensington	ELIAS MACFARLANE	48, Portobello-terrace, Notting-hill, W.	10 to 4
59 West Kensington	HENRY HART	52, Norland-square, Notting-hill, W.	[illegible]
60 Lewisham	CHARLES JAMES BADGER	63, Lewisham-road, S.E.	daily from 9 a.m.
61 Sydenham	JAMES TOLLEY	London and South Western Bank, Dartmouth-road, Forest-hill, S.E.	all reasonable hours
62 Penge	GEO. [illegible]	Vestry Hall, Anerley, S.E.	10 to 4
63 East Streatham and Brixton	[illegible] SIMON QUILTER	[illegible]	10 to 4
64 West Streatham	[illegible] ROBERT DALE	10, Harleyford-rd., Vauxhall-rd., Battersea, S.W.	10 to 4
65 Clapham	WILLIAM [illegible]	6, Clapham-common, S.W.	10 to 4
66 Central Division of Battersea	WILFRED J. HARDCASTLE	73, Marney-road, Battersea-rise, S.W.	10 to 4
67 Southern Division of Battersea, and the detached portion of Clapham	HORACE CHESTON	35, Bellevile-rd., Northcote-rd., Battersea-rise	10 to 4
68 North Battersea	[illegible]	St. Margarets, Albert Bridge-rd., Battersea, S.W.	9½ to 5
69 West Wandsworth	THOMAS ROLER SMITH	The Knoll, 7, Upper Richmond-road, S.W.	[illegible]
70 East Wandsworth and Tooting Graveney	GEORGE ATTERSON	The Larches, Trinity-rd., Upper Tooting, S.W.	10 to 4
71 Putney and Hamlet of Roehampton	THOMAS WILLIAM WILLIS	Frampton Lodge, Clarendon-rd., Putney, S.W.	9 to 5
72 East Hampstead	[illegible]	13, Pond-street, N.W.	10 to 4
73 West Hampstead	[illegible]	3, Blackburne-road, [illegible]	10 to 4
74 Detached portion of Clerkenwell, near Muswell Hill	ALFRED BOVILL (*temporary*)	30, Grove-terrace, Highgate-road, N.W.	

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DISTRICT SURVEYORS.

BOUNDARIES OF DISTRICTS.

1. Consisting of the Wards of Lime Street, Tower, Aldgate, Portsoken, Billingsgate, and Langbourn.
2. [illegible] Vintry, Walbrook, and Bridewell Precinct.
3. [illegible] Great and Less, the Inner Temple and that part of the Middle Temple within the City, Serjeants' Inn, Fleet Street, and Chancery Lane, Clifford's Inn, Barnard's Inn, Thavies Inn, and those parts of Furnival's Inn and Staple Inn which are within the City
4. Consisting of the Wards of Bassishaw, Bishopsgate Within, Bishopsgate Without, Broad Street, Coleman Street, Cornhill, Cripplegate Within, and Cripplegate Without, and Precinct of Monkwell.
5. Consisting of that portion of the Parish situate north of Piccadilly together with that part of such Parish situate between the west side of [illegible]
6. Co[illegible]ting of the remaining portion of the Parish, or the Belgrave and Pimlico Division.
10. Consi[illegible]g of that part of the Parish lying on the south side of Marylebone Road.
11. Con[illegible]g of that part of the Parish lying on the north side of Marylebone Road.
12. Consisting of that portion of the Parish lying south of Lismore Road, the Circus, and the Midland Railway; and west of Kentish Town Road, High Street, Camden Town, Eversholt Street, Seymour Street, Upper Woburn Place, and Tavistock Square.
13. Consisting of that portion of the Parish lying north of Lismore Road, the Circus, the Midland Railway, and Leighton Road.
14. Consisting of that portion of the Parish lying south of Leighton Road, and east of the eastern boundary of District No. 12.
16. Consisting of that part of the Parish bounded on the north and west by the boundaries of the Parish, on the south by the centre line of Camden Road, and on the east by the centre line of Highgate Hill and Holloway Road.
17. Consisting of that portion of the Parish bounded on the north by the centre line of Camden Road, on the south by the centre line of Copenhagen Street and Caudesley Place, and by the southern enclosure of the Agricultural Hall, on the east by the centre line of Upper Street and Holloway Road, and on the west by the boundary of the District.
18. Consisting of that part of the Parish lying on the east side of Highgate Hill and Holloway Road, and on the west side of Highbury Place, Highbury Park, and Blackstock Road.
19. Consisting of that part of the Parish situate on the east side of High Street, Upper Street, Islington, Highbury Place, Highbury Park, and Blackstock Road.
20. Consisting of that part of the Parish of Islington situate to the south of the southern boundary of District No. 17, and bounded on the east by the centre line of Upper Street.
26. Consisting of that portion of the Parish of Bethnal Green east of Cambridge Road; and that portion of the Parish of Bow south of Old Ford Road and of the Embankment of the Northern Outfall Sewer.
27. Consisting of that portion of the Parish west of Cambridge Road.
28. Consisting of that portion of the Parish lying north of the North London Railway, and bounded on the west by Lower Clapton Road and Upper Clapton to Stamford Hill.
29. Consisting of that portion of the Parish of Hackney lying south of the North London Railway and bounded on the west by the centre line of Mare Street and Cambridge Road, and on the south and east by the boundary of the Parish, and also that portion of Bow north of the centre line of Old Ford Road, and north-east of the Embankment of the Northern Outfall Sewer
30. Consisting of that portion of the Parish lying west of Mare Street, Lower Clapton Road and Upper Clapton to Stamford Hill
33. The Tower Liberty consists of: 1st, Her Majesty's Tower Ground, called the Old Artillery Ground, near Spitalfields; 2nd, the Parish of Holy Trinity, Minories; 3rd, the Liberty and Precinct of Old Tower Without, 4th, Wellclose Precinct, which includes Wellclose Square.
37. Consisting of that portion of the Parish of Lambeth bounded on the south by the centre line of Nine Elms Lane, Miles Street, South Lambeth Road, Dorset Road, Holland Street, Vassall Road, and Camberwell New Road, and on the north by Brixton Hill and Dulwich Road; and also that portion of the Parish of Camberwell south-west of the Camberwell New Road.
38. Consisting of that portion of the Parish of Newington westward of Walworth Road, and also such portion of the Parish of Lambeth as is bounded on the west by Kennington Road, and Clapham Road as far as Holland Street; on the south by Holland Street, Vassal Road, Camberwell New Road, and Wyndham Road, and thence along the boundary of the Parish of Newington to Walworth Road, on the east by Pitman Street, and on the north by the boundary of the Parish of Lambeth and Lambeth Road, and including also an outlying angular portion of the Parish of Lambeth at the junction of Camberwell New Road with Denmark Hill.
39. Consisting of that portion of Newington eastward of Walworth Road, and that part of St. George-the-Martyr contiguous thereto on the east side.
40. Consisting of that portion of the Parish of Lambeth situate westward of Kennington Road and Clapham Road, and bounded on the south by the centre line of Dorset Road, South Lambeth Road, Miles Street, and Nine Elms Lane; and on the north by Church Street and Lambeth Road to its junction with Kennington Road, and also that portion of the Parish of Battersea lying to the eastward of the centre line of Albert Road, and of a line continued thence southward by the eastern wall of the "Clockhouse" Tavern, Battersea Park Road, to the Embankment of the Railway leading to Battersea and Kensington, and to the northward of the London and South Western Railway.
41. Consisting of that portion of Lambeth to the southward of Leigham Lane, Norwood Road, Lancaster Road, and the boundary of the detached portion of Streatham
44. Consisting of that part of the Parish of Lambeth lying north of the "northern" boundary of the Districts Nos 38 and 40.
45. Consisting of that part of Camberwell situate north of the Grand Surrey Canal, and east of the Old Kent Road.
47. Consisting of the Parish of St. Nicholas, Deptford, and so much of the Parish of St. Paul, Deptford, in Kent, as lies to the northward of a line drawn along the centre of New Cross Road, the Broadway, and Deptford Bridge.
48. Consisting of the remaining portion of the Parish of St. Paul, Deptford, in Kent.
55. Consisting of that portion of the Parish to the northward of a line drawn along the centre of King's Road and Sloane Square.
56. Consisting of that portion of the Parish to the southward of such line.
57. Consisting of that part of the Parish of Kensington, and also that portion of the Parish of St. Margaret, Westminster, adjoining thereto, lying on the south side of Knightsbridge Road, Kensington Gore, High Street, and Kensington Road, and on the eastward side of Earl's Court Road and Redcliffe Gardens.
58. Consisting of that part of the Parish of St. Mary Abbott, Kensington, lying north of High Street and Kensington Road, and eastward of Holland Park and the centre of Ladbroke Road and also that portion of the Parish of St. Margaret, Westminster, adjoining thereto, lying on the north side of Knightsbridge Road, Kensington Gore, and High Street, and the detached portion of St. Luke, Chelsea, lying to the north of the Parish of St. Mary Abbott, Kensington, at Kensal Green.
59. Consisting of that part of the Parish of St. Mary Abbott Kensington, to the westward of a line drawn along the centre of Redcliffe Gardens and Earl's Court Road, the eastern boundary of Holland Park, and the centre of Ladbroke Road, and thence to the western boundary of the detached portion of the Parish of St. Luke, Chelsea, at Kensal Green.
60. Consisting of that part of the Parish of Lewisham lying north of a line drawn along the centre of London Road, and along the eastern side of the Brighton Railway till it approaches the end of Stanstead Road, and then following the centre of that road and Catford Road, and southward of the churchyard to Cock Shed Lane, and thence to the eastern boundary of the said Parish.
62. Consisting of that part of the Parish of Lewisham lying south of the Lewisham District.
63. Consisting of that part of Streatham (including the detached portion) situate to the eastward of the centre line of Brixton Hill, Streatham Hill, and Upper and Lower Streatham, and that portion of Lambeth bounded on the north by the centre line of Leigham Lane, Norwood Road, and Lancaster Road, and on the west by the centre line of Brixton Road.
64. Consisting of that part of Streatham situate to the westward of the western boundary of District No. 63.
66. Consisting of that part of the Parish of Battersea southward of the London and South Western Railway, northward and westward of the boundary of the Parish of Clapham, and northward of Clapham Common and Battersea Rise
67. Consisting of that part of the Parish of Battersea southward of Battersea Rise and westward of Clapham Common, together with the detached portion of Clapham
68. Consisting of that portion of the Parish of Battersea which lies on the northern side of the London and South Western Railway, and to the westward of the boundary of the District No. 40.
69. Consisting of that portion of the Parish of Wandsworth which lies to the westward of the London and South Western Railway.
70. Consisting of the remaining portion of the Parish of Wandsworth to the eastward of the said line of Railway, together with the Parish of Tooting Graveney.
72. Consisting of that part of the Parish to the eastward of a line drawn along the centre of Avenue Road and Finchley Road.
73. Consisting of that part of the Parish to the westward of the line lastly described.

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DISTRICT SURVEYORS

BUILDINGS.—TABLE OF FEES

AREA IN SUPERFICIAL FEET.	ONE STOREY.		TWO STORIES		THREE STORIES		FOUR STORIES.		FIVE STORIES		SIX STORIES.	
	New Buildings.	Additions and Alterations.	New Buildings	Additions and Alterations	New Buildings.	Additions and Alterations	New Buildings	Additions and Alterations	New Buildings.	Additions and Alterations	New Buildings	Additions and Alterations
Not exceeding	£ s. d	£ s. d	£ s d	£ s d	£ s d	£ s d	£ s d	£ s d	£ s d	£ s d	£ s d	£ s
400	0 15 0	0 7 6	1 10 0	0 15 0	1 15 0	0 17 6	2 0 0	1 0 0	2 5 0	1 2 6	2 10 0	1 5 0
500	1 12 6	0 16 3	1 12 6	0 10 3	1 17 6	0 18 9	2 2 6	1 1 3	2 7 6	1 3 9	2 12 6	1 6 3
600	1 15 0	0 17 6	1 15 0	0 17 6	2 0 0	1 0 0	2 5 0	1 2 6	2 10 0	1 5 0	2 15 0	1 7 6
700	1 17 6	0 18 9	1 17 6	0 18 9	2 2 6	1 1 3	2 7 6	1 3 9	2 12 6	1 6 3	2 17 6	1 8 9
800	2 0 0	1 0 0	2 0 0	1 0 0	2 5 0	1 2 6	2 10 0	1 5 0	2 15 0	1 7 6	3 0 0	1 10 0
900	2 2 6	1 1 3	2 2 6	1 1 3	2 7 6	1 3 9	2 12 6	1 6 3	2 17 6	1 8 9	3 2 6	1 11 3
1,000	2 5 0	1 2 6	2 5 0	1 2 6	2 10 0	1 5 0	2 15 0	1 7 6	3 0 0	1 10 0	3 5 0	1 12 6
1,100	2 7 6	1 3 9	2 7 6	1 3 9	2 12 6	1 6 3	2 17 6	1 8 9	3 2 6	1 11 3	3 7 6	1 13 9
1,200	2 10 0	1 5 0	2 10 0	1 5 0	2 15 0	1 7 6	3 0 0	1 10 0	3 5 0	1 12 6	3 10 0	1 15 0
1,300	2 12 6	1 6 3	2 12 6	1 6 3	2 17 6	1 8 9	3 2 6	1 11 3	3 7 6	1 13 9	3 12 6	1 16 3
1,400	2 15 0	1 7 6	2 15 0	1 7 6	3 0 0	1 10 0	3 5 0	1 12 6	3 10 0	1 15 0	3 15 0	1 17 6
1,500	2 17 6	1 8 9	2 17 6	1 8 9	3 2 6	1 11 3	3 7 6	1 13 9	3 12 6	1 16 3	3 17 6	1 18 9
1,600	3 0 0	1 10 0	3 0 0	1 10 0	3 5 0	1 12 6	3 10 0	1 15 0	3 15 0	1 17 6	4 0 0	2 0 0
1,700	3 2 6	1 11 3	3 2 6	1 11 3	3 7 6	1 13 9	3 12 6	1 16 3	3 17 6	1 18 9	4 2 6	2 1 3
1,800	3 5 0	1 12 6	3 5 0	1 12 6	3 10 0	1 15 0	3 15 0	1 17 6	4 0 0	2 0 0	4 5 0	2 2 0
1,900	3 7 6	1 13 9	3 7 6	1 13 9	3 12 6	1 16 3	3 17 6	1 18 9	4 2 6	2 1 3	4 7 6	2 3 9
2,000	3 10 0	1 15 0	3 10 0	1 15 0	3 15 0	1 17 6	4 0 0	2 0 0	4 5 0	2 2 6	4 10 0	2 5 0
2,100	3 12 6	1 16 3	3 12 6	1 16 3	3 17 6	1 18 9	4 2 6	2 1 3	4 7 6	2 3 9	4 12 6	2 6 3
2,200	3 15 0	1 17 6	3 15 0	1 17 6	4 0 0	2 0 0	4 5 0	2 2 6	4 10 0	2 5 0	4 15 0	2 7 6
2,300	3 17 6	1 18 9	3 17 6	1 18 9	4 2 6	2 1 3	4 7 6	2 3 9	4 12 6	2 6 3	4 17 6	2 8 9
2,400	4 0 0	2 0 0	4 0 0	2 0 0	4 5 0	2 2 6	4 10 0	2 5 0	4 15 0	2 7 6	5 0 0	2 10 0
2,500	4 2 6	2 1 3	4 2 6	2 1 3	4 7 6	2 3 9	4 12 6	2 6 3	4 17 6	2 8 9	5 2 6	2 11 3
2,600	4 5 0	2 2 6	4 5 0	2 2 6	4 10 0	2 5 0	4 15 0	2 7 6	5 0 0	2 10 0	5 5 0	2 12 6
2,700	4 7 6	2 3 9	4 7 6	2 3 9	4 12 6	2 6 3	4 17 6	2 8 9	5 2 6	2 11 3	5 7 6	2 13 9
2,800	4 10 0	2 5 0	4 10 0	2 5 0	4 15 0	2 7 6	5 0 0	2 10 0	5 5 0	2 12 6	5 10 0	2 15 0
2,900	4 12 6	2 6 3	4 12 6	2 6 3	4 17 6	2 8 9	5 2 6	2 11 3	5 7 6	2 13 9	5 12 6	2 16 3
3,000	4 15 0	2 7 6	4 15 0	2 7 6	5 0 0	2 10 0	5 5 0	2 12 6	5 10 0	2 15 0	5 15 0	2 17 6
3,100	4 17 6	2 8 9	4 17 6	2 8 9	5 2 6	2 11 3	5 7 6	2 13 9	5 12 6	2 16 3	5 17 6	2 18 9
3,200	5 0 0	2 10 0	5 0 0	2 10 0	5 5 0	2 12 6	5 10 0	2 15 0	5 15 0	2 17 6	6 0 0	3 0 0
3,300	5 2 6	2 11 3	5 2 6	2 11 3	5 7 6	2 13 9	5 12 6	2 16 3	5 17 6	2 18 9	6 2 6	3 1 3
3,400	5 5 0	2 12 6	5 5 0	2 12 6	5 10 0	2 15 0	5 15 0	2 17 6	6 0 0	3 0 0	6 5 0	3 2 6
3,500	5 7 6	2 13 9	5 7 6	2 13 9	5 12 6	2 16 3	5 17 6	2 18 9	6 2 6	3 1 3	6 7 6	3 3 9
3,600	5 10 0	2 15 0	5 10 0	2 15 0	5 15 0	2 17 6	6 0 0	3 0 0	6 5 0	3 2 6	6 10 0	3 5 0
3,700	5 12 6	2 16 3	5 12 6	2 16 3	5 17 6	2 18 9	6 2 6	3 1 3	6 7 6	3 3 9	6 12 6	3 6 3
3,800	5 15 0	2 17 6	5 15 0	2 17 6	6 0 0	3 0 0	6 5 0	3 2 6	6 10 0	3 5 0	6 15 0	3 7 6
3,900	5 17 6	2 18 9	5 17 6	2 18 9	6 2 6	3 1 3	6 7 6	3 3 9	6 12 6	3 6 3	6 17 6	3 8 9
4,000	6 0 0	3 0 0	6 0 0	3 0 0	6 5 0	3 2 6	6 10 0	3 5 0	6 15 0	3 7 6	7 0 0	3 10 0
4,100	6 2 6	3 1 3	6 2 6	3 1 3	6 7 6	3 3 9	6 12 6	3 6 3	6 17 6	3 8 9	7 2 6	3 11 3
4,200	6 5 0	3 2 6	6 5 0	3 2 6	6 10 0	3 5 0	6 15 0	3 7 6	7 0 0	3 10 0	7 5 0	3 12 6
4,300	6 7 6	3 3 9	6 7 6	3 3 9	6 12 6	3 6 3	6 17 6	3 8 9	7 2 6	3 11 3	7 7 6	3 13 9
4,400	6 10 0	3 5 0	6 10 0	3 5 0	6 15 0	3 7 6	7 0 0	3 10 0	7 5 0	3 12 6	7 10 0	3 15 0
4,500	6 12 6	3 6 3	6 12 6	3 6 3	6 17 6	3 8 9	7 2 6	3 11 3	7 7 6	3 13 9	7 12 6	3 16 3
4,600	6 15 0	3 7 6	6 15 0	3 7 6	7 0 0	3 10 0	7 5 0	3 12 6	7 10 0	3 15 0	7 15 0	3 17 6
4,700	6 17 6	3 8 9	6 17 6	3 8 9	7 2 6	3 11 3	7 7 6	3 13 9	7 12 6	3 16 3	7 17 6	3 18 9
4,800	7 0 0	3 10 0	7 0 0	3 10 0	7 5 0	3 12 6	7 10 0	3 15 0	7 15 0	3 17 6	8 0 0	4 0 0
4,900	7 2 6	3 11 3	7 2 6	3 11 3	7 7 6	3 13 9	7 12 6	3 16 3	7 17 6	3 18 9	8 2 6	4 1 3
5,000	7 5 0	3 12 6	7 5 0	3 12 6	7 10 0	3 15 0	7 15 0	3 17 6	8 0 0	4 0 0	8 5 0	4 2 6

For inspecting an Arch or Stone Floor over or under a Public Way—10s.; or where there are several to a house, 10s. per house or building.

For inspecting the formation of Openings in Party Walls—10s.

SPECIAL FEES.

For every Furnace and Chimney-shaft belonging thereto—according to the height.

HEIGHT NOT EXCEEDING	75 feet.	100 feet.	120 feet.	130 feet.	140 feet	150 feet.	160 feet.	170 feet.	180 feet.	190 feet	200 feet.	210 feet
	£ s. d	£ s. d.	£ s d	£ s d	£ s d	£ s. d	£ s d	£ s d	£ s d	£ s d	£ s d	£ s d
	1 10 0	2 0 0	2 2 6	2 5 0	2 7 6	2 10 0	2 15 0	3 0 0	3 5 0	3 10 0	3 15 0	4 0 0

And 5s. for every additional 10 feet.

For certifying as to cutting away Chimney-breasts to Party Walls inspecting the fixing of Heating Apparatus, or for any other special service performed, application must be made to the LONDON COUNTY COUNCIL to appoint a special fee

PERIODS WHEN SURVEYORS ARE ENTITLED TO FEES.

At the expiration (1) of one month after the roof of any building has been covered in (2) of 14 days after the completion of any work placed under the supervision of the District Surveyor, (3) of 14 days after any special service in respect of any building has been performed Fees can be recovered from the builder, owner or occupier

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DRAINAGE.

In laying drains the trenches should be examined and tested to see that the fall is regular, and the bed sufficiently solid to ensure that there shall be no subsidence of the drain in any portion of its length; if the ground be soft or running sand, a bed of concrete should first be laid to receive the pipes.

Where pipes are laid in a wet sub-soil in the neighbourhood of springs, and there is a tendency for water to run along the bed of the drain, provision must be made for carrying off the water. This can be done by laying agricultural pipes on either side of the drain, or by the use of drain pipes, manufactured by Messrs. Brook, of Huddersfield, which are supported by a semi-circular pipe with open joints underneath as a conduct for the sub-soil water. The sub-soil water can at suitable points be turned into the drain for the purpose of flushing.

Where a building has to be erected on soil which holds water, the site should be drained by the use of agricultural pipes, these being discharged into open gulleys outside leading into the main drain.

Cast iron drain pipes are being used for the drainage of buildings, by the North British Plumbing Co., and others. Their advantages are, the long lengths of pipes, and consequent fewness of joints, and greater rigidity of the drain. The pipes can be treated by the Barff process inside and out, to protect them from oxidation.

Testing Drains.—The following are methods of testing drains. To stop the lower end of the drain and fill with water to see whether the water soaks away or is retained. To pour down a drain half an ounce or so of oil of peppermint followed immediately by six gallons of hot water. Vertical pipes can be tested by burning some odorous material at the base. When drains to be tested pass through a house, care should be taken to close tightly all doors, windows, and other openings.

Pipes half full with a velocity of 3 feet per second would have the following falls: 4 inch pipes 1 in 100; 6 inch, 1 in 150; 9 inch, 1 in 225; 12 inch, 1 in 300; 15 inch, 1 in 350; 18 inch, 1 in 450; 24 inch, 1 in 600; 30 inch, 1 in 700; and with a velocity of 2 feet per second 4 inch pipes would have a fall of 1 in 200, 6 inch, 1 in 300; 9 inch, 1 in 450; 12 inch, 1 in 600; 15 inch, 1 in 700; 18 inch, 1 in 900; 24 inch, 1 in 1,200; 30 inch, 1 in 1,400.

(*See also "Sanitary Appliances."*)

ELECTRIC LIGHTING.

The advantages of the electric light may be summed up in a few words by saying it is healthier than any other form of light because it does not vitiate the atmosphere. It is steadier as there is no flickering, and therefore does not tire the eyes; it is cooler, as it only produces one twentieth the heat of gas, and one twenty-eighth the heat of wax candles; it is safer, as no matches are required to light it, and inflammable things cannot be set alight by it; it is prettier, as it can be fixed in any position, and therefore lends itself readily to artistic decoration; and when made on a large scale it is said it can be made cheaper than gas. It must, however, be added, that the last claim has not, up to the present, been verified. Those companies who are now supplying electricity for lighting charge a higher rate than gas, but it may be partly owing to the fact that those using it are always willing to pay considerably more for it than its rival.

Messrs Compton & Co. publish various books, pamphlets, &c., on electric lighting (most of which are issued free to Architects, Engineers, and Builders), giving particulars of cost, &c., regarding electric lighting. The following is taken from a paper by Mr. R. E. Crompton read before the Society of Arts:—

"The plant for producing the electric light may be divided into generating and distributing apparatus. In a detached installation the whole system of engines and dynamos generating the electricity, with the conductors distributing it to the lamps, is self-contained, generally within one building. At any rate, the system of conductors which connect the generating station with the lamps does not extend beyond the property of the consumer; but in the case of central station lighting, the electricity is generated at a station placed more or less centrally to the area to be supplied, and from thence the conductors are taken through the streets to be lighted. It is the difficulty of dealing with a system of conducting mains passing through the public streets which has so long retarded the investment of capital in systems of supply from central stations.

"The various modes of laying the conductors may be divided into two classes—(1) By insulated cables, with the appearance of which all are familiar, laid either in troughs, drawn into pipes, or into bitumen cases; or (2) by bare copper conductors stretched on earthenware or glass insulators in culverts or small subways, formed just beneath the surface of the footway. One or other of the first methods is most commonly employed. But during the last year there has been laid at Kensington considerable lengths of bare copper conductor in culverts as above described, with most satisfactory results. The completed conductor consists of such durable materials, and the facilities for repairs and renewals, and for exchanging or increasing the size of the conductor itself, are so great, that it is particularly suited for electric lighting at its present stage, when we are very uncertain as to the number of houses that each conductor will have to supply during the next few years. This is very different from that of the gas companies, who lay down their mains with the full knowledge that every house fronted by the mains will have to take the gas to a larger or smaller extent. Electric light engineers, on the contrary, having to compete with the existing supply, in most cases do not know what proportion of the houses will take the current. It is a great point, therefore, to be able to lay down a small conductor in the first instance, and to increase it by adding copper at a later date; in fact, any system employed must fulfil this requirement. If it were not for the many transverse pipes above mentioned, the culvert system described would best fulfil all the requirements; but unless these pipes can be all got below the culvert, or grouped so as to cross the culvert at regular intervals in masses of solid brickwork, it would not be safe to use the bare copper conductors, for when these stretch they might come in contact with the pipes, and so make an earth connection. For such places a compromise has to be effected by using short lengths of insulated cable drawn into pipes or bitumen cases. Matters must be so arranged, however, that cables can be altered, repaired, or renewed, without again breaking up the surface of the footway, and this must be done by having surface boxes with removable covers. It is calculated that in London not less that 20 yards of main conductor will be required to be laid for every house supplied; that is to say, for 1,000 houses, 20,000 yards of conductors will be required, and as the cost of taking up and replacing the surface of an asphalte footway is about 11s. a yard, this item alone comes to more than £5 of capital charge for every house supplied. A great point would be gained if it were rendered obligatory on the gas and water companies to place their service pipes at a greater depth below the surface than they are at present, and this could be very easily arranged. If this could be done in all cases, so that culverts measuring eight or nine inches in the clear could be provided, it would make the laying and care of our conductors comparatively plain sailing, and would save enormous sums of money to the lighting company, and hence would react favourably on the cost of the light itself.

"The importance of this matter can be seen when it is known that about half of the capital required for a central station supply system is required for the conductors themselves.

"The generating machinery for electric lighting has already reached a high degree of perfection. Steam engines and dynamos are now made to return in the shape of electricity from 75 to 82 per cent. of the energy put into the cylinder of the steam engine. Having already obtained such high efficiencies, very small advantages can be hoped for to the consumer from further improvements in either generating or distributing plant. Doubtless great improvements will be made in the manufacture of the incandescent lamps. They may be made vastly more efficient, but every man using the electric light will be able to avail himself continuously of the improvements of the lamps by putting them in as his old ones wear out; so there is no reason why he should put off using the light on this account."

"*Cost of Production and Maintenance.*—Adopting the Board of Trade standard of 8d. per unit, and estimating that the income from each house taking the light will average about £25 a year, it has been calculated that the company will cover its expenses and begin to pay dividends as soon as the number of houses taking the light exceeds 20 per cent. of the whole number fronting the mains. Roughly speaking, the capital required for plant of every description may be taken at £50 to £60 each house supplied. One of the great enemies to the progress of central station lighting has been the wild promises that have been made by inventors of various forms of primary batteries, who are telling you every day that they will light your houses

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with some form of primary battery that can be put in your cellar, and will require no attention Many say that they intend to have nothing to do with the electric light until they can get it in some simple form of this kind, and that they feel convinced that they will get it.

EXCAVATORS' MEMORANDA

Digging—27 cubic feet equal 1 load, and contain 21 striked bushels or 27 heaped bushels, 54 cubic feet equal 1 double load. The following materials weigh 1 ton, as filled into carts:—21 cubic feet of river sand, 22 cubic feet of pit sand, 22 cubic feet of Thames ballast, 23 cubic feet of coarse gravel, 24 cubic feet of clean shingle 19 cubic feet of stiff clay, 19 cubic feet of marl, 29 cubic feet of chalk (in lump), 32 cubic feet of night soil, 33 cubic feet of earth (mould).

A dobbin cart will hold about ¾ yard cube. A wheel-barrow contains 1-10th yard cube. A small earth waggon will hold 1½ cubic yards. A large earth waggon will hold 3 cubic yards. Night soil is removed in carts containing 45 cubic feet.

One yard cube of solid earth or gravel contains 18 heaped bushels before digging, and 27 heaped bushes when dug. 40 square yards equal 1 rood of surface digging, in country.

In common ground a good excavator will dig and throw out into a barrow, in a day of 10 hours, from 8 to 10 cubic yards, in stiff clay or firm gravel about 6 cubic yards; in hard ground from 3 to 5 cubic yards. A wheel barrow will hold from 1-18th to 1 10th cubic yard.

Natural Slopes of earth, with horizontal line—Clay, well drained, 45 deg; clay wet, 16 deg.; earth, 28 deg.; earth (compact), 50 deg.; gravel, average 40 deg., rubble, 45 deg.; sand, 22 deg.; dry sand, 38 deg.; shingle, 39 deg.

FIREPROOF CONSTRUCTION.

By HENRY LOVEGROVE, F.S.I.

This is a subject which has received great attention during the last twenty years, and many systems are now before the building public.

The objects of fireproof construction are:—

To render the floors, walls, and roof of a building capable of resisting the effects of fire, and by dividing buildings into compartments to prevent fire from spreading from one compartment to another

In public buildings, such as theatres, the structure should be fire-resisting, to give ample time for the escape of the audience by means of suitable and sufficient exits. In all public buildings, landings, corridors, and staircases should be of incombustible materials, according to law in the metropolis, but beyond this the various Building Acts in force touch lightly upon fireproof construction. Thus horizontal divisions of structures not in the same occupation, and having a separate entrance from without, must be fireproof, and if separate sets of chambers, tenanted by different persons, are contained in a building exceeding 3,600 square feet in area, such chambers must be divided vertically by party walls, and, horizontally, by party arches or fireproof floors.

The Romans in the time of Julius Cæsar constructed floors as well as walls of a kind of concrete consisting of broken pumice stone for roofs and floors, and broken tufa or lava for walls, the cementing material being a mixture of lime and pozzolana.

It was nearly the end of the last century before anything was tried as fireproof flooring, except brick arches carried by very thick walls; then came segmental brick arches supported by cast iron girders.

This method of construction caused many serious accidents, as the girders gave way during a fire, and the entire structure collapsed.

In the seventeenth century, reeds, covered with a thick layer of coarse gypsum, had been used in Nottinghamshire, and before the Royal Society in 1778 Earl Stanhope described a system of pugging for rendering wooden floors fireproof.

At the commencement of the third decade of the present century joists of wrought iron were introduced, with half brick arches, and the haunches filled in with concrete This was followed by the "Fox and Barrett" floor, which was described by Mr. Barrett in 1840 before the Institute of Civil Engineers.

Very few papers have been read on this important subject, as it is forty years since Mr. Barrett's paper was read, and for the first time, in April, 1889, the Society of Engineers discussed the matter, after a very able paper by Mr. G. M. Lawford, A.M.I.C.E.

The late Sir Henry Hunt used an arch of tiles and cement resting on rolled joists.

Mr. Dawnay's system consists either of ½ inch square iron bars, 12 inches apart, or of 3 inch joists, 16 inches apart, resting on the lower flanges of 6 inch joists in 7 feet bays 16 feet span. Flat centering is placed below the joists, and concrete is filled in, forming a solid mass encasing the ironwork.

The concrete is composed of broken bricks, or other suitable aggregate, and Portland cement. Any floor can be laid on the concrete, and the underside can be plastered, the material covering the lower flange of the joist, or at least 1½ inches.

The cost for a 12 feet bearing, including joists is about seven shillings per superficial yard, the weight 40 lbs. per square foot, and will carry a safe load of 2 cwt. per square foot.

This system has been extensively used during the past twenty years with uniform success, and has withstood a most severe test in a recent conflagration at a druggist's manufactory.

Dennett's system has been used in many large buildings, such as St. Thomas' Hospital, the Courts of Justice, and the Home, Colonial, and Foreign Offices.

The system consists of arches made of concrete composed of broken bricks and sulphate of lime. If the spans are narrow, the arches are carried on walls; if wide spans on rolled joists.

The arches rise about one inch for every foot of width, and are filled in between the haunches to make a solid level floor.

The girders are completely encased in the concrete, and there is a minimum of thrust on the walls owing to the slight rise of the arches. An additional merit is that the floors are non-conductors of both sound and heat

The sulphate of lime or gypsum used in this system causes the concrete to remain intact when exposed to white heat, while ordinary cements lose their cohesive power under similar circumstances.

Very similar to Dennett's is that of Messrs W. B. Wilkinson. The concrete is composed of bricks, coke breeze, and Portland cement For small spaces no joists are required, but T irons are inserted

The soffites are rendered, or ceiling joists are fixed, to carry slabs of fibrous plastering ⅝ in. thick.

Messrs. Lindsay & Co space the iron joists from 18 in. to 36 in. apart, with trussed rods in pairs, passed over and under the joists, thus bracing the joists.

The concrete comprises coke, breeze, mineral sand, and Portland cement.

The same firm invented another system of steel troughs filled with pumice concrete, the soffites having fillets secured by bolts to the trough, or concrete slabs

The floors have been used in some large buildings, such as the Prudential Assurance Company's Offices, and the National Liberal Club.

Messrs. Rounson, Drew, & Co. prefer to use rolled iron joists, spaced from 18 inches to 2 feet apart, supporting flat concrete not less than 6 inches thick, the depth of the joists of course varying with the span and the load to be carried.

Another kind of floor is the Doulton-Peto, which is composed of springers or skewbacks, fitting on to the lower flange of the joists; a complete arch with a keystone, all of terra-cotta, forms the floor, the soffite having dovetailed grooves for plaster. The materials of which the blocks are composed is not affected by heat or cold water, and if used for narrow spans forms a very effective floor

The well-known improved fireproof floor of Messrs. Homan and Rogers is a modification of the French, or flat brick floor.

The rolled joists are placed one foot six inches apart, and specially moulded perforated hard burnt blocks are laid between. These blocks have a moulded projection, protecting the flanges of the joists, so that no part of the iron is exposed to the action of fire, and no discolouration of the ceiling can possibly take place. The blocks are formed with wedge joints throughout, so that when the concrete is filled in, a compact and solid floor is formed. This construction, unlike arched construction, generally, gives no thrust, and ties the walls securely together. The cost within the London district is from seven shillings per yard super for the iron joists, brick and concrete, fixed complete

One of the most recent inventions is that of Mr Mark Fawcett, formerly an architect. The rolled joists are placed 2 feet apart, with semi circular tubes of fireclay 4½ inches

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diameter, and 1in thick, called by the inventor tubular lintels, which rest on the lower flanges of the rolled joists.

The whole is concreted over with breeze concrete, the flat side of the tube forming an excellent key for the plaster ceiling. This system has been applied to several buildings. The weight is about 40 lb. per square foot.

Messrs. Evans and Swain, in their system, rely entirely upon round solid joists laid close together and well spiked. The depth of the joists being 4½ inches for 8 feet, and 11 inches for 30 feet, no plates being required.

Many systems of fireproof construction are in use in France, and Mr Gale, in a paper at the Royal Institute of British Architects, stated that in America he found that rolled joists were used with hollow arch blocks of burnt clay resembling terra-cotta or fireclay.

Fireproof Fixing Blocks for Floors and Walls (Wright's Patent).—These are indestructible blocks of a specially made concrete, patented by Mr. George A. Wright, in 1881. They are very hard and tough, and do not split up; moreover, they *never get too hard to be used* although the certified crushing weight is 1,188 lbs. to 1½ in. cube. The nail holding properties of Wright's Blocks are excellent and well known.

When used in basement or fireproof floors the Blocks are bedded level, and anything fixed thereto becomes absolutely immovable. An air space under floor boards may be easily obtained, if desired. Wright's Fixings are of great assistance in firmly securing wood blocks or parquet to the concrete bed. Boarded soffites, fibrous ceilings and ornaments may be thus firmly secured. They have been used in many of the largest contracts of recent years, and also adopted by H. M. Government Departments, and are strongly recommended by the leading authorities upon fire prevention. [See advt. in this book.]

FLOORS

TABLE OF WOOD GIRDERS, BINDERS, AND JOISTS, IN BALTIC FIR.

Length of bearing in feet.	Girders 10 feet apart.		Binders 4 to 6 feet apart.		Joists 1 foot apart.		Ceiling Joists 1 foot apart.	
	Depth in ins.	Breadth in ins.	Depth in ins.	Breadth in ins.	Depth in ins.	Breadth in ins.	Depth in ins.	Breadth in ins.
4	—	—	—			—	2½	1½
6	—	—	6	4	6	2	3½	2
8	—	—	7	4½	7	2½	4	2
10	9	7	8	5	7½	2½	5	2
12	10	8	9	5½	8	2½	6	2½
14	11	9	10	6	[illegible]	[illegible]		—
16	12	10	11	6½	10½	2½		
18	12	11	12	7	12	2½	—	
20	13	11	13	7½	12	3		
24	15	12	—	—	—	—		
28	16	13	—	—	—	—	—	
30	16	13	—	—	—	—	—	—
32	16	14	—	—	—	—	—	—

FOUNDATIONS AND SITES OF BUILDINGS

Bye Laws of the London County Council.

No house, building, or other erection, shall be erected upon any site or portion of any site which shall have been filled up or covered with any material impregnated or mixed with any fæcal, animal, or vegetable matter, or which shall have been filled up or covered with dust, or slop, or other refuse, or in or upon which any such matter or refuse shall have been deposited, unless and until such matter or refuse shall have been properly removed, by excavation or otherwise, from such site. Any holes caused by such excavations must, if not used for a basement or cellar, be filled in with hard brick or dry rubbish.

The site of every house or building shall be covered with a layer of good concrete, at least six inches thick, and smoothed on the upper surface, unless the site thereof be gravel, sand, or natural virgin soil.

The foundations of the walls of every house or building shall be formed of a bed of good concrete, not less than nine inches thick, and projecting at least four inches on each side of the lowest course of footings of such walls. If the site be upon a natural bed of gravel, concrete will not be required.

The concrete must be composed of clean gravel, broken hard brick, properly burnt ballast, or other hard material to be approved by the District Surveyor well mixed with fresh burnt lime or cement in the proportion of one of lime to six, and one of cement to eight of the other material.

The foregoing Bye law shall not apply to any building or other erection to be used as a stable or shed, provided that such erection shall not be used for any public entertainment or assembly of persons, or as a dwelling or sleeping place.

FRONTAGES

(Metropolis Management Act Amendment, 1862.)

General line of Street.—Buildings projecting beyond general line of street, if taken down, or demolished by fire or otherwise, to the extent of one half, may be set back by requirement of the County Council, in which case compensation shall be given to the owner.

Buildings may not be erected beyond general line of building in any street without the consent in writing of the County Council, in case such line of buildings does not exceed fifty feet from the highway.

The County Council may, in giving consent for any erection beyond the regular line of buildings in any street annex any condition to the consent.

(Metropolis Management and Building Acts Amendment, 1882.)

The County Council, in giving consent to the erection of a building or structure beyond the regular line of frontage, may annex to the consent any condition as to the amount of land in front of such building or erection which shall be given up to the public.

(Metropolis Management and Building Acts Amendment, 1878.)

Prescribed distance from centre of Road. No building may be erected, or be extended in such manner that the front wall, or if there be a forecourt, the external fence or boundary of such forecourt, shall be at a distance less than the prescribed distance from the centre of the roadway, passage, or way, without the consent in writing of the County Council.

FURNACE CHIMNEY SHAFTS.

By HENRY LOVEGROVE, F.S.I.

It is somewhat remarkable that while it is possible to erect churches, schools, mansions, and acres of ordinary houses in the metropolis without referring to anybody as regards the construction of the buildings except the qualified expert known as the District Surveyor, nobody can erect a small shaft for an ordinary engine without making a special application to the County Council, as all the Acts of Parliament have passed over the furnace chimney shafts, although they are referred to in section 20, sub-section 10 of the Building Act, 1855.

It would have been easy to have given a table of heights and proper thickness of walls.

Very tall chimney shafts are not erected in the London district, the tallest in Great Britain being Tennant's Stalk at the St. Rollox Chemical Works, Glasgow, the total height of which is 468 feet, and Port Dundas, also in Glasgow, which is 454 feet.

There are about twenty-five shafts which exceed 200 feet, but the majority are below 100 feet, indeed some of the large towns in the Midland Counties have regulations restricting the height to 90 feet.

It is very important that chimney shafts should have a proper foundation, in all cases going down to a good hard solid earth, rock or gravel. A solid mass of concrete should then be laid, and the brickwork of the best hard well-burnt stocks should proceed slowly, and on no account during frosty weather.

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Mortar should be used, and the joints flushed up, not grouted.

If the heat is likely to be great, fire bricks should be used for the internal facing.

It is better to keep shafts quite independent of other buildings.

Heavy caps are a source of danger, the projection being limited in the Metropolis to the thickness of the brickwork at the top of the shaft.

As many stretchers as possible should be used to increase the tenacity of the shaft to resist any force tending to split it.

Hoop iron bond is often used, and the strength of the shaft is much increased thereby, but a stack so constructed is attractive to the electric fluid, and in this case, as indeed in every case, a good lightning conductor is a necessity.

Many tall shafts after erection have been found to have bulged, and various methods have been adopted for straightening.

Regulations to be observed in making Applications to the London County Council.

Every chimney shaft for the furnace of a steam boiler, brewery, distillery, or manufactory shall be carried up throughout in brickwork and mortar, or cement of the best quality.

Every furnace chimney shaft shall be built on a bed of concrete to the satisfaction of the District Surveyor.

The base of the shaft shall be solid to the top of the footings, and the footings shall spread equally all round the base by regular offsets to a projection on both sides equal to the thickness of the wall at the base.

The width measured externally of a furnace chimney shaft at the base or at that portion immediately above the footings shall be as follows:—

If *square* on plan at least one-tenth of the total height of the shaft.

If *octagonal* on plan at least one-eleventh of the total height of the shaft.

If *circular* on plan at least one-twelfth of the total height of the shaft.

Every furnace chimney shaft shall have a batter of 2½ inches at least in every 10 feet of height, or 1 in 48.

The brickwork shall be at least 8½ inches in thickness at the top of the shaft, and for not exceeding 20 feet below, and shall be increased at least 4½ inches in thickness for every 20 feet of additional height measured downwards.

No portion of the walls of a furnace chimney shaft shall be constructed of fire brick, and any fire brick lining to be used must be in addition to the thickness of and independent of the brickwork.

Every cap, cornice, pedestal string course or other variation from plain brickwork shall be in addition to the thickness of brickwork prescribed by the foregoing rules, and no cornice shall project more than the thickness of the brickwork at the top of the shaft.

N.B.—Two copies of the tracing on linen should be sent, and the construction must be clearly shown.

GAS FITTERS MEMORANDA.

On laying gas-pipes a slight rise should be given them throughout their whole length, because of the condensation from the gas which accumulates in them.

Siphons, with a draw-off tap, or tee pipes with stopped ends, should be placed wherever there is a depression in the pipes to receive the condensation.

Sizes of Pipes.—The following are the sizes of pipes most generally in use:—⅜ inch diam for 2 lights, ⅝ inch diam. for 6 lights, ½ inch diam. for 12 lights; ¾ inch diam. for 25 lights; 1 inch diam. for 50 lights, 1¼ inch for 70 lights; 1½ inch diam. for 120 lights; and 2 inch diam. for 200 lights.

Gas pipes should not be buried in the plaster of walls but be exposed, or laid where they can be easily got at in case of leakage.

Gas jets should not be placed nearer to a ceiling than three feet, or to wood work at sides ten inches.

Gas light intercepted by Glasses.—Common window glass intercepts light about 10 per cent., ground glass about 25 per cent., and opal globes from 40 to 50 per cent.

Light decreases in the ratio of the square of its distance from its source.

GAS GOVERNORS.

A reliable Governor is necessary to control the pressure of gas from the main, so as to obtain the greatest amount of light for the smallest consumption of gas. Gas burnt at too great a pressure is not only wasteful of the gas, but deleterious, as part only of that passing through the burners is consumed, the remainder escaping into the air to the serious damage of furniture, paintings, and decorations generally.

Dr. Andrew Wilson, F.R.S.E., F.L.S., &c., says, "A great source of health danger and air impurity combined, is found in the varying pressures at which gas enters our houses. If the pressure is great and uncontrolled, more gas is forced through the burners than can be properly and fully consumed. Waste of gas, &c., increased gas bills, together with ill health, are the results of this accident, which can be remedied by a Gas Governor. . . . . The Gas Governor is a great sanitary pioneer and health saving appliance, as well as an instrument of economy." Of the Gas Governors in the market, one of the most successful is "The Shaw," patented by Joseph Shaw, of Huddersfield, particulars of which will be found in the Complete Catalogue. This Governor is spoken of in high praise by many who have proved its value by practical use.

GLAZIERS' MEMORANDA.

A crate of *Crown Glass* contains 12 tables of the best; 15 tables of seconds; 18 tables of third; and 18 tables of fourth. A table measures from 48 to 54 inches in diameter, and will glaze 8 to 12 feet super.

Sheet Glass may be obtained of several qualities and thicknesses, from 15 to 42 ozs. per foot super, and from 12 to 17 feet in area.

Patent Plate is of three qualities, and may be obtained of the following thicknesses:—1-16th, 1-12th, 1-10th, and 1-9th of an inch, and up to 50 inches long or 39 wide, and 13 feet in area.

Polished or British Plate is of two glazing qualities and 3-16th, 1-4th, and 1-8th inches thick can be obtained up to 100 feet in area.

Rough Plate (plain or fluted) is 1-16th, 1-12th, 1-10th, and 1-9th of an inch in thickness, and can be obtained up to 100 inches long, or 30 inches wide and 30 feet in area.

Rough Plate Cast (for roofs, skylights, &c.) is made up to 60 feet in area, with a thickness of ⅛ to ¼ of an inch, and 40 feet in area, with a thickness of 1 inch.

HABITABLE ROOMS, CELLARS, VAULTS, &c.

Rules under Metropolitan Building and Metropolis Management Acts.

Every habitable room, except attics and cellars, must be at least 7 feet in height in every part.

Every habitable room constructed in the roof must be at the least 7 feet in height for not less than one half the area of the room.

Cellars, underground rooms to be constructed in manner directed by the Act for the better Local Management of the Metropolis.

Provisions as to the Occupation of underground Rooms as Dwellings.

Any room of a house the surface of the floor of which room is more than three feet below the surface of the footway of the adjoining street, and any cellar, where such room or cellar is or has been occupied separately as a dwelling at or before the time of the passing of this Act, may continue to be so let or occupied if it possess the following requisites; that is to say,

If there be an area not less than three feet wide in every part from six inches below the floor of such room or cellar to the surface or level of the ground adjoining to the front, back, or external side thereof and extending the full length of such side.

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If such area, to the extent of at least five feet long and two feet six inches wide, be in front of the window of such room or cellar, and be open or covered only with open iron gratings;

If there be in every such room or cellar an open fireplace, with proper flue therefrom,

If there be a window opening of at least nine superficial feet in area, which window opening must be fitted with a frame filled in with glazed sashes, of which at the least four and a half superficial feet must be made to open for ventilation;

And no such room nor any cellar not so let or occupied as aforesaid at or before the time of the passing of this Act shall be so let or occupied unless it possess the following requisites: that is to say,

Unless the same be in every part thereof at least seven feet in height, measured from the floor to the ceiling thereof;

Unless the same be at least one foot of its height above the surface of the footway of the street adjoining or nearest to the same;

Unless there be outside of and adjoining the same room or cellar, and extending along the entire frontage thereof and upwards from six inches below the level of the floor thereof up to the surface of the said footway, an open area at least three feet wide in every part;

Unless the same be effectually drained and secured against the rise of effluvia from any sewer or drain;

Unless there be appurtenant to such room or cellar the use of a water closet or privy and an ashpit furnished with proper doors and coverings kept and provided according to the provisions of this Act,

Unless the same have a fireplace with a proper chimney or flue,

Unless the same have an external glazed window of at least nine superficial feet in area clear of the frame, and made to open in such manner as is approved by the surveyor of the Metropolitan Board of Works,

Provided always, that in any area adjoining a room or cellar there may be placed steps necessary for access to such room or cellar, and over or across any such area there may be steps necessary for access to any building above the room or cellar to which such area adjoins, if the steps in such respective cases be so placed as not to be over or across any such external window.

HEIGHT OF BUILDINGS

(Metropolis Management Act Amendment, 1862.)

No building except a church or chapel may be erected on the side of any new street of a less width than 50 feet which shall exceed in height the distance from the external wall or front of such building to the opposite side of such street without consent in writing of the County Council. The measurement to be taken from the level of the centre of street up to the parapet or eaves of the building.

IRON AND STEEL CONSTRUCTION.

Tests for Cast Iron.—The surface of a casting should be smooth and even, the edges clean and perfect. A new fracture should present a fine-grained texture, have bright metallic lustre, and be of uniform blue-grey colour. Should be free from air bubbles, scoriæ, flaws, and other defects. Flaws and air bubbles at times get filled in with sand, or are purposely stopped in. These defects may be detected by a dulness of sound on the metal being struck. The edges of a casting struck with a light hammer should receive a slight impression, indicating that it is tough. If it fracture, the metal is hard and brittle. Test bars of the same metal as castings are sometimes run for the purpose of testing.

Tests for Wrought Iron. Subject it to sudden blows by a falling weight to test its toughness. To tensile strain to test its ductibility, it should stretch before fracture. Soak a bar of iron for a few days in very weak muriatic or nitric acid, which will render its fibrous structure visible, and in best iron its fibres will appear fine, straight, and lie regularly side by side; in inferior iron the fibres will be coarser and not so regular in arrangement.

Tests for Steel are the same as for wrought iron.

PRESERVATION OF IRON.

Galvanizing consists of a thin coating of zinc, applied by steeping the heated iron in chloride of zinc to act as a flux, and then dipping it into molten zinc.

Bower Barff process consists in coating the iron with magnetic oxide produced at a high temperature.

Before coating iron care should be taken to see that the surface is perfectly clean.

(See also "Antioxide" and "Painters' Memoranda.")

COLUMNS.

Columns with ends flat and fixed are three times stronger than columns with rounded or movable ends. This ratio decreases with columns under 30 diameters to about 1½ times at 12 diameters. A column with fixed ends equals in strength a column with movable ends of half its length. A column with one end fixed and one round, or movable, is in strength a mean between columns with both ends fixed and both round. The strength of solid columns, with rounded ends, is increased about 1-7th by enlarging the diameter in the middle, but enlarging the diameter of hollow columns in the middle or at the end does not increase their strength.

Columns with flat ends, when not exceeding five diameters for cast iron, and ten diameters for wrought iron, yield wholly by crushing, and when from 5 to 30 diameters for cast iron and 10 to 60 diameters for wrought iron, yield partly by crushing and partly by bending.

For very long columns the breaking weight of wrought iron is considerably more than of cast iron of the same dimensions. Columns of steel have about double the strength of those of iron.

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Cast Iron Columns.

Table of safe loads at about 1-10th breaking weight in Tons and Cwts. Ends flat and fixed.

HOLLOW COLUMNS.
Length in Feet.

External Diam in inches	Thickness of Metal	6	8	10	12	14	16	18	20	25
		T. C.	T. C.	T. C.	T. C.	T. C.	T. C.	T. C.	T. C.	T. C.
3	½	5 10	[illegible]	3 4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	4·4	3 10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	5·8	3 10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	8·0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	9 5	7 5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	5	11·5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	14·0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	13·5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	16 0	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	23·10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	1¼	[illegible]	27·10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	19·0	15·10	12·12	9·10	8·13	7·7	6·3	[illegible]
[illegible]	[illegible]	[illegible]	23·5	19·0	15·10	12·15	10·10	9·0	7·10	5 15
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	12 10	[illegible]	[illegible]	
6	[illegible]		31·0	25 10	20 15	17·0	14·5	12 0	10 5	7·0
6	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	1¼	[illegible]	41·0	33 10	27 10	22·15	18·15	15·15	13·10	8·15
6	1½	[illegible]	46 10	38·5	31·5	26·0	21·10	18·0	15·5	10·10
7	[illegible]	[illegible]	30·15	26·0	22·0	18·10	15·10	13·5	11·10	9·0
7	[illegible]	[illegible]	36·0	30·10	[illegible]	[illegible]	[illegible]	15 14	12 10	9 0
7	[illegible]	[illegible]	41·0	34·15	[illegible]	[illegible]	[illegible]	[illegible]	15 5	10 15
7	1	[illegible]	[illegible]	39·0	33 0	27·15	23 10	20·0	17·5	11·0
7	1¼	[illegible]	[illegible]	46·15	39·10	33·0	28·4	24·0	20 10	14·0
7	1½	[illegible]	[illegible]	53·15	45·5	38·5	32·10	27·10	23·15	16·15
8	[illegible]	[illegible]	[illegible]	33·10	28·15	24·15	21 10	18 10	16 0	13·0
8	[illegible]	[illegible]	[illegible]	39·0	34·0	29·0	25·0	21·15	18·15	13 15
8	[illegible]	[illegible]	[illegible]	45·0	39·0	33·0	29·0	25·0	21·15	16·15
8	[illegible]	[illegible]	[illegible]	50·0	43·0	37·0	32·0	28 0	24·10	16·10
8	[illegible]	[illegible]	[illegible]	61·0	51·0	45·0	39·0	33·15	29·10	21·5
8	1	[illegible]	[illegible]	70·0	61·0	52·0	45·0	39.0	34·0	24·10
9	[illegible]	[illegible]	[illegible]	48·0	43·0	37·0	33·0	29·0	24.0	18·10
9	[illegible]	[illegible]	[illegible]	66 10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	74 10	65 10	57 0	51·0	44·10	39·10	29·0
9	[illegible]	[illegible]	[illegible]	[illegible]	78 1	[illegible]	59 10	[illegible]	[illegible]	33 10
10	[illegible]	[illegible]	[illegible]	66·10	59·10	53·0	47·0	41·10	37·0	28·0
[illegible]	[illegible]	[illegible]	[illegible]	75·0	67·0	59·10	53·0	47·0	41·10	31 10
10	1¼	[illegible]	[illegible]	91·0	81·10	72·10	64·0	57·0	50·10	38·0
		[illegible]	[illegible]	106·0	95·0	84·10	75·0	66·10	59·0	44·10
11	[illegible]	[illegible]	[illegible]	87·0	79·0	71·10	64·0	57·10	51·10	39·10
[illegible]	1½	124·10	115 10	106·0	96·0	87·0	78·0	70·0	63·0	48·0
11	[illegible]	145·10	135·10	124·0	113·0	102·0	91·10	82·0	73·10	56·10
[illegible]	1	115·0	107·0	97·0	91·10	83·0	76·0	68·10	62·0	48·10
[illegible]	1½	[illegible]	[illegible]	[illegible]	[illegible]	101 0	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	165·0	153·10	139·0	131·0	118·10	108·10	98·10	89·0	69·0

SOLID COLUMNS.
Length in Feet.

Length in Feet	8	10	12	14	16	18	20
	T. C.	T. C.	T. C.	T. C.	T.	T. C.	T. C.
[illegible]	[illegible]	[illegible]	5	[illegible]	3	2	[illegible]
[illegible]	17	[illegible]	8	[illegible]	[illegible]	[illegible]	3
2	1 5	16	14	[illegible]	[illegible]	7	[illegible]
[illegible]	2 3	[illegible]	[illegible]	1 2	[illegible]	[illegible]	[illegible]
[illegible]	3 2	[illegible]	1·11	1 4	[illegible]	[illegible]	13
[illegible]	4 9	1	2 5	1 14	1 7	[illegible]	19
3	6·2	4 3	3 1	2 7	1 17	1 10	[illegible]
[illegible]	10 12	[illegible]	5 6	4 2	3 5	2 13	[illegible]
4	17 3	11 14	8 12	6 12	5·6	4 6	3 12
[illegible]	[illegible]	[illegible]	13 3	10·2	8·1	6 12	5 10
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9 13	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16·12	13 1	11 7
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	13 11
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	81 0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	27 1
[illegible]	97 10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	97 10	83 0	71·0	[illegible]	52 10	43 10
[illegible]	135·10	115·10	98·10	85·0	74·0	[illegible]	54 10
9	158·10	136·0	117·10	101·10	88·10	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	205·10	178·10	155·10	136·0	119·0	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	337·0	300·0	269 0	238·10	212·10	[illegible]	171 10
13	408·10	368·10	331·10	296·10	266·10	[illegible]	[illegible]
14	470·10	442·10	402·0	301·10	327 0	[illegible]	[illegible]
15	571·10	524·0	479·0	433·10	394 10	[illegible]	339·0

HODGKINSON'S FORMULA.

(Ends flat and fixed.)

Where D = Diameter of Column in inches.
,, d = Internal diameter of column in inches.
,, L = Length of Column in feet.
,, W = Breaking Weight in tons.

Solid Columns, $W = 44{\cdot}16 \frac{D^{3\cdot6}}{L^{1\cdot7}}$

Hollow Columns, $W = [illegible] \frac{D^{[illegible]} - d^{[illegible]}}{L^{1\cdot7}}$

The strength of a Hollow Column nearly equals the difference between that of two solid columns the diameters of which are equal to the external and internal diameters of the hollow one.

Strength of short Column in which L is less than 30 D. Let W = breaking weight of Column as found from formula above. C = crushing force per square inch of section of the metal × sectional area of column.

Then corrected breaking weight $= \frac{W\,C}{W + \frac{3}{4}C}$

The crushing strength of Cast Iron p[illegible] is 40 tons.

The outside of a solid Cast Iron column of small diameter is harder and stronger than the inside; in one specimen Mr. Hodgkinson found the crushing strength vary from 29·65 tons per square inch to [illegible] tons, and thin rings of the same Iron had a crushing strength of from 49·2 to 51·78 tons per square inch. The difference of [illegible] lines, however, between external and internal parts of large columns is much less than in small ones, and may be [illegible] neglected. Three columns having the same sectional area, but of round, square, and triangular forms are of the following strengths respectively, viz.:—55299 : 51537 : 61056.

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Rolled Iron Joists and Girders.

Table of safe distributed loads in Tons, and decimal parts of a ton, at about quarter breaking weight.

SECTION.	Depth.	Width.	Weight per foot.	BEARING IN FEET.															
				6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
	Ins.	Ins.	Lbs.	Tons.	Tons	Tons.	Tons	Tons.	Tons.	Tons.	Tons	Tons	Tons.	Tons.	Tons.	Tons	Tons.	Tons.	Tons
	3	1⅝	5	0·8	0·6	0·5	0·4	..	..	..	..	..	..	..	..	..	..	..	..
	3	3	10	1·9	1·4	1·1	1·0	0·8	..	..	..	..	..	..	..	..	..	..	..
	4	1¾	7	1·7	1·4	1·0	0·9	0·7	..	..	..	..	..	..	..	..	..	..	..
	4	3	12	3·1	2·5	1·9	1·5	1·3	1·2	1·1	..	..	..	..	..	..	..	..	..
	4½	1⅝	8	2·3	1·7	1·4	1·0	0·9	0·8	0·7	..	..	..	..	..	..	..	..	..
	4½	3	13	4·1	3·0	2·5	2·0	1·8	1·6	1·4	..	..	..	..	..	..	..	..	..
	5	4½	23	7·6	6·0	4·4	4·0	3·5	3·0	2·5	..	..	..	..	..	..	..	..	..
	6	5	29	11·5	8·8	6·8	5·9	4·9	4·3	3·8	..	..	..	..	..	..	..	..	..
	6¼	3⅛	16	6·0	4·8	4·0	3·2	2·8	2·4	2·1	1·9	..	..	..	..	..	..	..	..
	6¼	2	11	4·1	3·0	2·4	2·0	1·7	1·5	1·4	1·2	..	..	..	..	..	..	..	..
	7	3¾	20	9·3	7·0	6·0	4·7	4·2	3·5	3·1	2·8	2·5	2·3	..	..	..	..	..	..
	7½	2¼	14	5·5	4·0	3·3	2·9	2·4	2·0	1·8	1·6	1·5	1·4	..	..	..	..	..	..
	8	2½	15	9·3	7·0	5·5	4·5	3·6	2·8	2·5	2·0	1·9	1·6	..	..	..	..	..	..
	8	4	22	13·0	9.8	7·8	6·5	5·6	5·0	4·3	4·0	3·6	3·2	..	..	..	..	..	..
	8	5	29	15·4	11·5	9·3	7·7	6·8	5·8	5·2	4·6	4·0	3·8	3.5	3·3	..	..	..	..
	8	6	36	18·0	14·9	11·5	9·4	8·3	7·0	6·0	5·6	5·0	4·7	4·3	4·0	..	..	..	..
	9¼	3¾	24	13·5	10·0	8·0	7·0	6·0	5·0	4·5	4·2	3·8	3·5	3·2	3·0	..	..	..	..
	9½	4½	29	19·6	15·6	11·6	9·5	8·3	7·3	6·4	5·8	5·3	4·8	4·4	4·1	..	..	..	..
	10	4½	32	22·0	17·0	13·0	11·0	9·3	8·5	7·2	6·5	5·9	5·4	5·0	4·6	..	..	..	..
	10	5	36	24·0	18·0	14·8	12·0	10·6	9·0	8·2	7·3	6·7	6·2	5·7	5·3	..	..	..	..
	10	6	56	30·0	22·0	19·0	16·0	13·5	12·0	10·5	9·5	8·6	7·9	7·2	6·7	6·2	5·7	..	..
	12	5	42	35·9	26·7	21·7	18·0	15·5	13·0	12·1	10·9	9·9	9.0	8·4	7·8	7·2	6·8	..	..
	12	6	56	44·0	33·0	26·8	22·0	18·7	16·0	14·8	13·2	12·2	11·0	10·0	9·0	8·9	8·2	7·8	..
	14	6	60	50·0	38·0	30·0	25·4	22·0	19·0	17·0	15·4	13·9	12·7	11·7	10·9	10·0	9·3	9·0	..
	16	6	62	61·8	45·0	35·0	30·0	26.0	23·1	20·6	18·3	16·8	15·4	14·2	13·2	12·3	11·0	10·9	..
	18	7	82	66·6	50·0	40·0	33·3	28·7	25·0	22·2	20·0	18.0	16·7	15·6	14·4	14·3	12·5	11·8	11·1
	20	8	100	90·0	67·0	54·0	45·0	38·6	33·7	30·0	27·0	24·5	22·5	20·8	19·3	18·0	16·8	15·9	15·0
	12	5	60	..	..	24·0	20·0	17·0	15·1	13·4	11·9	10·9	10·0	9·2	8·6	8·0	..	..	..
	14	3½	42	..	..	..	16·5	14·0	12·3	10·9	9·8	8·9	8·0	7·5	7·0	6·6	..	..	..
	14	4½	54	..	..	..	23·7	19·8	17·5	15·8	14·2	12·8	11·7	11·0	10·1	9·4	8·9	8·3	7·9
	14	4	46	..	..	..	23·3	19·5	17·2	15·1	14·0	12·3	11·6	10·5	9·8	8·9	..	..	..
	15	5	67	..	..	38·0	31·2	26·5	23·5	21·0	19·0	17·0	15·7	14·6	13·5	12·5	11·8	11·0	10·5
	18	6	72	..	..	42·0	35·0	30·0	26·4	23·6	21·1	19·2	17·5	16·4	15·0	14·0	..	..	..
	15½	3¾	50	..	..	..	24·5	20·5	18·2	16·3	14·7	13·3	12·3	11·4	10·5	9·8	..	..	..
	20	5	70	..	..	..	..	32·0	28·4	25·2	22·7	20·0	18·7	17·5	16·1	15·0	..	..	..
	24	5	88	..	..	..	..	..	47·6	42·5	37·6	34·1	31·5	29·6	27·4	25·2	23·8	22·4	21·1
	8	6	34	..	..	10·9	9·1	7·8	6·8	6·1	5·4	5·0	5·6	4·2	..	..	..	..	..
	9	6	35	..	..	14·4	12·1	9·4	8·4	7·5	6·8	5·6	4·6	4·3	4·0	..	..	..	..
	10	6	44	..	..	20·9	17·4	14·8	12·7	10·0	9·4	8·3	7·6	..	..	..	..	..	..
	12	8	57	..	..	30·3	25·3	21·7	19·0	16·9	15·0	13·7	12·0	11·3	10·4	..	..	..	..
	14	12	84	..	..	..	..	30·0	26·0	23·0	20·0	18·0	17·0	16·0	15·0	..	..	..	..
	8¼	6	48	..	..	8·9	7·4	6·4	5·6	4·9	4·4	..	..	..	..	..	..	..	..
	9¼	6	51	..	..	10·9	9·0	7·9	6·9	6·0	5·4	4·9	..	..	..	..	..	..	..
	9¾	8	67	..	..	15·7	13·0	11·2	9.8	8·7	7·8	7·1	6·5	..	..	..	..	..	..
	10¾	8	67	..	..	21·9	18·0	15·8	13·8	12·1	10·9	9·8	9·1	8·4	7·8	..	..	..	..
	11	9	63	..	..	26·0	21·6	18·6	16·7	14·4	13·0	11·6	10·3	9·9	9·0	..	..	..	..
	13	12	90	..	..	44·0	37·4	31·8	27·0	24·6	22·4	20·0	18·0	17·1	15·9	14·7	..	..	..
	14¼	10	88	..	..	32·2	26·8	23·0	20·0	17·8	16·1	14·6	13·4	12·4	11·5	10·7	..	..	..
	7½	9	56	..	..	19·7	16·6	14·4	12·1	10·3	9·8	..	..	..	..	..	..	..	..
	9¾	8	65	..	..	..	21·0	17·8	15·0	13·5	12·6	11·4	10·5	9.6	9.0	..	..	..	..
	10	12	86	..	..	..	32·4	27·9	24·3	21·6	19·5	17·7	16·2	14·8	13·8	..	..	..	..
	12	12	110	..	..	..	..	48·0	41·0	37·0	34·0	30·0	28·0	26·0	24·0	22·0	..	..	
	14	16	155	..	..	..	..	75·0	63·0	54·0	48·0	44·0	41·0	38·0	35·0	33·0	..	..	
	7	14	..	..	..	..	25·0	21·4	18·5	16·5	15·0	..	..	..	..	..	..	..	..
	11¾	12	130	..	..	..	..	47·0	40·6	36·2	33·0	29·7	27·6	25·4	23·5	..	..	..	..
	14	14	175	..	..	..	102·7	79·5	69·3	61·8	56·0	50·4	46·2	42·6	39·0	36·0	33·0	31·0	30·0
	14	12	172	..	..	..	..	68·5	59·8	53·2	48·0	42·9	39·6	37·8	34·3	33·1	29·9	28·1	..
	14	16	130	..	..	..	..	41·9	36·5	32·5	29·5	26·5	24·3	22·5	20·9	19·0	..	..	..
	17½	16	100	..	..	..	..	84·0	67·0	54·0	45·0	40·0	36·0	34·0	33·0	32·0	..	..	..
				6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36

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ROWNSON, DREW & Co

Engineers and Ironfounders.

MANUFACTURERS OF BRIDGES, ROOFS, GIRDERS, COLUMNS, AND CONSTRUCTIONAL IRONWORK GENERALLY.

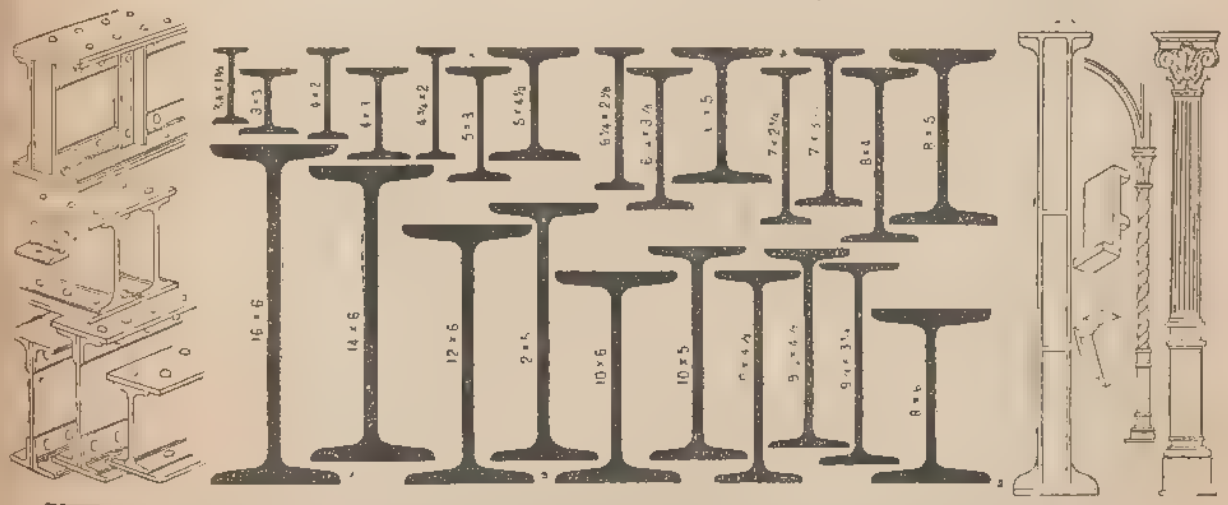
CONTRACTORS TO HER MAJESTY'S GOVERNMENT.

LARGE LONDON STOCK

OF

ROLLED JOISTS, FLITCH PLATES, CHANNEL, TEE, & ANGLE IRON, FLAT, ROUND, & SQUARE BAR IRON, STEEL, &c.

THE FOLLOWING SECTIONS OF ROLLED JOISTS ALWAYS IN STOCK AT PRINCES WHARF, COMMERCIAL ROAD, LAMBETH.



RIVETTED PLATE & COMPOUND GIRDERS MADE FROM STOCK IRON IN A FEW HOURS.

Large London Stock of Drew Crown Staffordshire and Netherton Crown Best Staffordshire Iron.

OFFICES AND WAREHOUSES:
225 Upper Thames Street, and 113, Queen Victoria Street E.C
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FOR STRENGTH OF GIRDERS, SEE NEXT PAGE.

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ROWNSON, DREW & CO.,

Rivetted Compound Girders.

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Table of Safe Distributed Loads in Tons, and decimal parts of a Ton.

(About Quarter Breaking Loads.)

SECTION.	No. of Section.	Depth.	Width	Weight per Foot.	BEARING IN FEET. 10	12	14	16	18	20	22	24	26	28	30	32	34
		Ins.	Ins.	Lbs.	Tons.	Tons.	Tons.	Tons.	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons	Tons.
	18 B	9¼	6	58	12·4	10·3	8·8	7·7	6·8	6·2	.	.	.	.	..	..	..
	21 B	9	8	60	13·5	11·3	9·7	8·4	7·5	6·7	..	.	..	..	..	..	..
	22 B	9¼	8	67	15·7	13·0	11·2	9·8	8·7	7·8	..	.	..	..	..	..	..
	23 B	10	6	73	16·5	13·3	11·8	10·3	9·1	8·2	..	..	..		..	..	..
	24 B	10½	6	83	19·5	16·2	13·9	12·1	10·8	9·7	..	.	..	..	..	..	.
	27 B	10	8	87	21·8	18·2	15·6	13·6	12·1	10·9	..	.	..		..	..	..
	28 B	10½	8	97	26·0	21·7	18·5	16·1	14·5	13·0	11·8	..	..	.	..	..	..
	31 B	9	8	64	15·3	12·7	10·9	9·5	8·4	7·6	6·9	.	..	..	.	..	.
	32 B	9¼	8	71	17·4	14·5	12·5	10·9	9·7	8·7	7·9	..	..	..	..	..	.
	37 B	10	8	91	23·6	19·7	16·9	14·8	13·1	11·8	10·7	.	..	..	..	..	..
	38 B	10½	8	104	28·0	23·3	20·0	17·5	15·5	14·0	12·8	.	..	..	..	..	..
	45 B	10½	8	60	16·0	13·4	11·5	10·0	8·9	8·0	7·3	6·7	..	..	..	..	..
	46 B	10¾	8	67	21·9	18·0	15·8	13·8	12·1	10·9	9·8	9·1	..	..	.	..	..
	69 B	11	8	66	18·8	15·7	13·4	11·7	10·4	9·4	8·5	7·8	7·2	..	.	..	..
	70 B	11¼	8	72	21·5	17·9	15·3	13·4	11·9	10·7	9·8	8·9	8·2	..	.	..	..
	75 B	12	8	93	29·2	24·4	20·9	18·2	16·2	14·6	13·2	12·2	11·2	..	.	..	..
	76 B	12½	8	106	34·4	28·7	24·6	21·5	19·1	17·2	15·6	14·3	13·2	..	.	..	..
	95 B	13	9	90	30·3	25·3	21·7	18·9	16·8	15·1	13·7	12·6	11·7	10·8	10·1	..	..
	96 B	13¼	9	98	34·0	28·4	24·3	21·3	18·9	17·0	15·5	14·2	13·1	12·1	11·3	..	.
	101 B	14	8	113	40·2	33·5	28·8	25·1	22·3	20·1	18·3	16·8	15·5	14·4	13·4	..	..
	102 B	14½	8	127	46·5	38·8	33·2	29·1	25·8	23·3	21·1	19·4	17·9	16·6	15·5	..	..
	103 B	14	9	120	44·1	36·8	31·5	27·6	24·5	22·0	20·0	18·4	16·9	15·8	14·7	..	..
	104 B	14½	9	135	51·5	42·9	36·8	32·2	28·6	25·7	23·4	21·4	19·8	18·4	17·1	..	.
	107 B	15	9	92	57·3	31·1	26·6	23·3	20·7	18·6	16·9	15·5	14·3	13·3	12·4	11·6	10·9
	108 B	15¼	9	100	40·2	33·5	28·7	25·1	22·3	20·1	18·2	16·7	15·4	14·3	13·4	12·5	11·8
	113 B	16	9	112	52·1	43·4	37·2	32·6	29·0	26·0	23·7	21·7	20·0	18·6	17·4	16·3	15·3
	114 B	16½	9	137	60·5	50·4	43·2	37·8	33·6	30·2	27·5	25·2	23·3	21·6	20·2	18·9	17·
	118 B	17¼	9	101	46·6	38·9	33·3	29·1	25·9	23·3	21·2	19·4	17·9	16·6	15·5	14·5	13·7
	121 B	17	11	101	47·2	39·3	33·7	29·5	26·2	23·6	21·4	19·6	18·0	16·8	15·7	14·7	13·9
	123 B	18	9	124	61·1	50·9	43·6	38·1	33·9	30·5	27·7	25·4	23·5	21·8	20·3	19·0	17·9
	124 B	18½	9	139	72·5	58·7	50·3	44·0	39·1	36·2	32·0	29·4	27·1	25·1	24·1	22·0	21·3
	126 B	18½	10	148	77·6	64·7	55·4	48·5	43·1	38·8	35·3	32·3	29·8	27·7	25·5	24·2	22·8
	92 T	10½	12	100	30·5	25·4	21·7	19·0	16·9	15·2	13·7	12·7	..	.	..	..	..
	93 T	10¾	12	110	34·6	28·8	24·7	21·6	19·2	17·3	15·7	14·4	..	..	..	..	..
	111 T	11	12	114	36·4	30·3	26·0	22·7	20·2	18·2	16·5	15·1	14·0	.	..	..	..
	112 T	11¼	12	124	40·5	33·7	28·8	25·2	22·4	20·2	18·4	16·8	15·5	.	..	..	..
	116 T	12	12	154	52·7	43·9	37·6	32·9	29·2	26·3	23·9	21·9	20·1	.	..	..	..
	117 T	12½	12	174	61·1	50·9	43·6	38·1	33·9	30·5	27·7	25·4	23·5	..	.	..	..
	130 T	13	12	128	45·9	38·2	32·7	28·6	25·4	22·9	20·8	19·1	17·6	16·3	15·3	..	..
	131 T	13¼	12	138	51·7	43·1	36·8	32·2	28·6	25·8	23·4	21·5	19·8	18·4	17·2	..	.
	135 T	14	12	168	65·6	54·7	46·8	41·0	36·4	32·8	29·8	27·3	25·2	23·4	21·9	..	.
	136 T	14½	12	188	76·0	63·3	54·3	47·5	42·2	38·0	34·5	31·6	29·2	27·1	25·3	.	.
	137 T	14	14	182	73·6	61·3	52·6	46·0	40·9	36·8	33·4	30·6	28·3	26·3	24·5	..	.
	140 T	13	14	163	59·8	49·7	42·7	37·4	33·2	29·9	27·2	24·8	23·0	21·3	19·9	..	.
	141 T	13¼	14	175	65·8	54·8	47·0	41·1	36·5	32·9	29·9	27·4	25·3	23·5	21·9	.	.
	144 T	14	14	210	82·2	68·5	58·7	51·4	45·6	41·1	37·4	34·2	31·6	29·3	27·4	..	..
	145 T	14½	14	234	93·9	78·2	67·0	58·6	52·1	46·9	42·6	39·1	36·1	33·5	31·3		.
	148 T	15	14	167	73·8	61·5	52·7	46·1	41·0	36·9	33·5	30·7	28·4	[illegible]	24·6	23·0	21·7
	149 T	15¼	14	179	78·2	65·2	55·8	48·9	43·4	39·1	35·5	32·6	30·1	[illegible]	26·1	24·4	23·0
	151 T	16	14	214	97·0	80·8	69·3	60·6	53·9	48·5	44·1	40·4	37·3	[illegible]	32·3	30·3	28·5
	152 T	16½	14	238	100·7	83·9	71·8	62·9	55·9	50·3	[illegible]	41·9	38·7	35·9	33·6	31·4	29·6
	156 T	17	14	171	83·5	69·6	59·6	52·1	46·3	41·7	37·9	34·8	[illegible]	[illegible]	27·8	[illegible]	24·5
	157 T	17¼	14	183	90·9	75·7	64·8	56·7	50·4	45·4	41·3	37·8	34·9	[illegible]	30·3	[illegible]	28·7
	158 T	17	16	178	88·7	73·9	63·3	55·4	49·2	44·3	40·3	36·9	34·1	31·[illegible]	[illegible]	[illegible]	26·0
	163 T	18	14	218	114·0	95·0	81·4	71·2	63·3	57·0	51·8	47·5	43·8	40·7	38·0	[illegible]·6	33
	164 T	18½	14	242	132·5	110·4	94·6	82·7	73·5	66·2	60·2	55·2	[illegible]	47·3	44·1	41·3	38·9
	165 T	18	16	231	124·5	103·7	88·8	77·7	69·1	62·2	[illegible]	51·8	47·	44·4	41·5	38·8	36·6

The strength of a Compound Girder made of two similar rolled joists superposed is practically equal to twice the strength of one of the joists composing it.

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DAWNAY'S

SOLID CONCRETE

FIRE-PROOF FLOORS.

The SIMPLEST,
CHEAPEST,
and STRONGEST
CONSTRUCTION yet INTRODUCED.

SUITABLE FOR ALL BUILDINGS to 40 ft. Span without Columns.

Composed only of STEEL or IRON JOISTS embedded in a HIGH-CLASS CONCRETE, finished FLAT BOTH SIDES, forming

A SOLID BLOCK OF ONE THICKNESS,

ABSOLUTELY INDESTRUCTIBLE.

No Arching, Flat-Bricks, Trussed Beams, Channel Iron or Counter Ceiling required.

Combines the Advantages of all other systems without their Disadvantages.

SEVERAL MILLION FEET have been in use during the past Twenty years, giving perfect satisfaction

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DAWNAY'S RIVETTED GIRDERS.

TABLE OF SAFE DISTRIBUTED LOADS IN TONS, IF MADE OF IRON. IF MADE OF STEEL, ADD ONE HALF MORE TONS.

EXAMPLE.—*Box Girder, 13 in. by 16 in., 160 to 168 lbs., carries 50 Tons on 14 ft., if Iron, but 75 Tons if Steel.*

Section.	Depth.	Width.	Weight per foot.	Bearing in feet. 8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
	Ins.	Ins.	lbs	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons	Tons	Tons.	Tons.
	9	6⅝	51 to 55	16	13	11	9	8	7		.	..	.	.	..	.	.	.
	9	6⅝	67 to 74	21	17	14	12	10	9	.	..	..	.		..	..	..	.
	9	8⅛	81 to 87	28	22	19	16	14	12	..	..	..	.	.	..	..	..	..
	9	8⅝	90 to 96	32	26	21	18	16	14	..	..	..	..	..	..	..	..	..
	12	6⅝	57 to 65	21	17	14	12	10	9	8	..	..	..	..	..	..	..	..
	12	6⅝	76 to 86	28	22	19	16	14	12	11	..	..	..	..	..	..	..	..
	12	7⅝	83 to 93	33	26	22	19	16	14	13	..	..	..	..	..	..	.	..
	12	8⅝	89 to 100	38	30	25	21	19	17	15	..	..	..	..	..	..	.	..
	12	8⅝	103 to 108	43	35	29	25	22	19	17	..	..	..	..	..	..	..	..
	12	12½	154 to 162	..	61	51	43	38	34	30	27	25	..	..	..	..	..	..
	7	9	90 to 93	28	22	19	16	..	..	..	..	..	..	..	..	..	..	
	9	8	93 to 98	35	28	23	20	17	15	..	..	..	..	..	..	..	..	..
	10	6	82 to 84	25	20	17	15	13	12	..	..	..	.	..	..	..	..	..
	10	8	89 to 92	..	27	23	20	17	15	14	..	..	..	..	..	..	..	..
	10	9	105 to 109	..	35	29	25	22	20	18	..	..	..	..	..	..	..	..
	11	9	115 to 120	..	43	35	30	26	23	21	19	..	..	..	..	..	..	..
	12	9	122 to 125	..	46	39	33	29	26	23	21	19	..	..	..	..	..	..
	13	9	86 to 92	..	35	29	25	22	20	18	16	15	14	..	..	..	..	..
	13	9	114 to 121	..	46	38	32	29	26	23	21	19	18	..	..	..	..	..
	13	9	121 to 128	..	50	42	36	31	28	25	23	21	19	..	..	..	..	..
	13	10	110 to 116	..	..	36	31	27	24	22	20	18	17	..	..	..	..	
	13	12	132 to 138	..	..	46	40	35	31	28	25	23	21	..	..	..	..	..
	15	10	117 to 125	..	..	42	36	31	28	25	23	21	19	18	..	..	.	.
	15	12	138 to 146	..	..	53	46	40	36	32	29	27	25	23	..	..	..	.
	17	9	119 to 123	..	..	..	39	34	30	27	25	23	21	19	18	17	..	.
	17	12	144 to 150	..	..	..	53	45	40	36	33	30	28	26	24	23	..	.
	10	6	72 to 77	..	..	24	20	18	16	14	..	..	..	..	..	..	..	
	10	9	111 to 115	..	..	37	31	27	24	22	..	..	..	..	..	..	..	..
	11	6	91 to 95	..	..	30	26	23	20	18	16	..	..	..	..	..	..	
	11	9	121 to 124	..	..	43	37	33	29	26	24	..	..	..	..	..	..	.
	12	10	130 to 134	..	..	50	43	37	33	30	27	25	..	..	..	..	..	..
	13	9	120 to 125	..	..	48	41	36	32	29	26	24	22	..	..	..	..	..
	14	10	128 to 134	..	..	55	47	41	36	33	30	27	25	..	..	..	..	
	14	12	146 to 152	..	..	65	55	48	43	39	35	32	30	..	..	..	..	..
	16	9	128 to 133	..	..	..	50	44	39	35	32	29	27	25	23	..	..	
	20	12	169 to 178	..	..	..	84	73	65	59	53	49	45	42	39	37	.	..
	13	16	160 to 168	..	70	59	50	44	39	35	32	29	27	..	..	..	..	..
	13	18	174 to 183	..	80	66	57	50	44	40	36	33	31	..	..	..	..	..
	10	12	122 to 125	..	..	46	39	34	30	27	25	..	..	..	..	..	.	..
	11	12	146 to 150	..	..	..	48	42	37	34	31	28	26	..	..	..	..	..
	13	12	155 to 158	..	..	..	57	50	44	40	36	33	31	29	27	..		..
	14	18	205 to 213	..	..	102	88	78	68	61	56	51	47	44	..	..	..	..
	20	18	233 to 243	..	..	..	125	109	97	88	80	73	67	62	58	54	51	49
	11	12	161 to 165	..	..	..	..	54	48	43	39	36	33	..	..	..	..	..
	12	12	180 to 184	..	..	..	..	66	58	53	48	44	40	38	..	..	..	..
	14	12	180 to 182	..	..	..	79	69	61	55	50	46	42	39	37	..	..	..
	14	16	219 to 221	..	..	..	101	88	78	70	64	59	54	50	47	..	..	..
	15	16	223 to 225	..	..	..	108	94	84	75	69	63	58	54	50	.	..	..
	15	18	245 to 247	..	..	..	121	107	95	85	78	71	65	60	57	..	.	..
	17	12	196 to 198	..	..	..	96	84	74	67	61	56	52	48	45	.	..	..
	18	12	198 to 202	..	..	..	109	95	85	76	69	63	58	54	51	48	..	.
	20	16	229 to 234	..	..	..	140	123	109	98	89	82	75	70	65	61	58	55
			FEET.	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36

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TABLE OF SAFE DISTRIBUTED LOADS.

SECTION	Depth	Width	Weight per foot in lbs.	Mark	10 ft. Tons.	12 ft. Tons.	14 ft. Tons.	16 ft. Tons.	18 ft. Tons.	20 ft. Tons.	22 ft. Tons.	24 ft. Tons.	26 ft. Tons.	28 ft. Tons.	30 ft. Tons.	34 ft. Tons.	38 ft. Tons.	42 ft. Tons.	50 To
	8"	5¼"	32	12	10·6	8·9	7·6	6·7	..	..	..	..	..	..	..	.		..	.
	9"	5¼"	33	13	12·3	10·3	8·8	7·7	6·8	..	..	..	..	.	..	.	..	..	.
	10"	5¼"	34	14	14·3	11·9	10·2	8·9	7·9	7·1	..	..	..	..	..	..	..	..	.
	12"	5¼"	37	15	18·5	15·4	13·2	11·5	10·3	9·3	8·4	..	..	..	..	..	..	..	.
	9"	6¼"	46	16	19·7	16·4	14·0	12·3	10·9	9·8	8·9	8·2	..	..	..	..	..	..	.
	10"	6¼"	47	17	22·8	18·9	16·3	14·2	12·6	11·4	10·3	9·5	8·8	..	.	..	..	..	.
	12"	6¼"	49	18	27·9	23·3	19·9	17·5	15·5	13·9	12·7	11·7	10·8	..	..	..	..	.	.
	14"	6¼"	52	19	34·4	28·8	24·6	21·3	19·1	17·2	15·6	14·3	13·2	12·2	.	..	.	..	.
	12"	7½"	70	1	39·8	33·2	28·4	24·9	22·1	19·9	18·1	16·6	15·3	..	.	..	.		.
	15"	7½"	73	2	51·7	43·1	37·0	32·3	28·7	25·8	23·5	21·5	19·9	18·5	17·2	..	.	..	.
	18"	7½"	76	3	..	53·0	45·4	39·7	35·3	31·8	28·9	26·5	24·4	22·7	21·3	18·7	16·7		.
	10"	8½"	53	31	26·2	21·8	18·7	16·4	14·5	13·1	11·8	10·9	..	..	..	..	..		.
	12"	8½"	55	32	32·8	27·4	23·4	20·5	18·2	16·4	14·9	13·7	12·6	11·7	..	..	..	.	.
	15"	8½"	59	33	43·6	36·4	31·2	27·3	24·2	21·8	19·8	18·2	16·8	15·6	14·5	12·8	..	.	.
	16"	8½"	60	34	47·3	39·4	33·7	29·5	26·2	23·6	21·5	19·7	18·2	16·8	15·8	13·6	12·4	.	.
	12"	8½"	79	4	46·0	38·3	32·8	28·7	25·5	23·0	20·9	19·1	17·7	..	..	..	..		.
	15"	8½"	82	5	59·8	49·8	42·7	37·4	33·2	29·9	27·2	24·9	23·0	21·3	19·9	..	..	.	.
	18"	8½"	85	6	..	61·3	52·5	46·0	40·9	36·8	33·4	30·6	28·3	26·2	24·5	21·6	19·4	.	.
	12"	12½"	96	7	58·5	48·7	41·8	36·0	32·5	29·2	26·6	24·3	22·5	..		..	..	.	.
	15"	12½"	99	8	76·1	63·4	54·3	47·6	42·3	38·0	34·5	31·7	29·2	27·1	25·3	.	..	..	.
	18"	12½"	102	9	..	78·0	67·0	58·5	52·0	46·8	42·5	39·0	36·0	33·5	31·2	27·5	24·6	.	.
	21"	12½"	117	10	..	..	79·4	69·5	61·8	55·6	50·5	46·3	42·8	39·7	37·0	32·7	29·2	26·4	.
	24"	12½"	121	11	..	..	..	80·4	71·5	64·3	58·4	53·6	49·5	46·0	42·9	37·8	33·8	30·6	2
	12"	9"	86	20	52·5	43·7	37·5	32·8	29·1	26·2	23·9	21·8	20·2	..	..	..	..	..	.
	15"	9"	89	21	67·5	56·2	48·2	42·2	37·5	33·7	30·7	28·1	26·0	24·1	22·5	..	..	..	.
	18"	9"	92	22	..	68·7	58·9	51·5	46·0	41·2	37·5	34·3	31·7	29·4	27·5	24·2	21·7	..	.
	21"	9"	101	23	..	..	69·6	60·9	54·1	48·7	44·3	40·6	37·5	34·8	32·5	28·7	25·6	23·2	.
	24"	9"	105	24	..	..	..	70·3	62·5	56·2	51·1	47·0	43·2	40·1	37·5	33·0	29·6	26·8	21
	12"	9"	104	25	65·3	54·4	46·6	40·8	36·3	32·6	29·7	27·2	25·1	..	.	..	..		.
	15"	9"	107	26	84·1	70·0	60·0	52·5	46·7	42·0	38·2	35·0	32·3	30·0	28·0	..	..	..	.
	18"	9"	110	27	..	85·6	73·5	64·2	57·1	51·4	46·7	42·8	39·5	36·7	34·2	30·2	27·0	.	.
	21"	9"	118	28	..	.	86·7	75·9	67·5	60·7	55·2	50·6	46·7	43·3	40·5	35·7	32·0	29·0	.
	24"	9"	122	29	..	..	..	87·5	78·0	70·0	64·0	58·3	54·0	50·0	46·7	41·2	36·9	33·3	28
	12"	10"	116	40	71·0	59·1	50·7	44·3	39·4	35·5	32·2	29·5	27·3	.	..	..	..	.	.
	15"	10"	119	41	92·3	77·0	66·0	57·7	51·2	46·1	42·0	38·5	35·5	33·0	30·7	..	..		.
	18"	10"	122	42	..	94·7	81·1	71·0	63·1	56·8	51·6	47·3	43·7	40·5	37·9	33·4	29·9	.	.
	21"	10"	130	43	..	..	96·3	84·3	74·9	67·4	61·2	56·2	51·9	48·1	44·9	39·6	35·5	31·1	.
	24"	10"	134	44	..	..	..	97·6	86·8	78·1	71·0	65·1	60·0	55·8	52·0	45·9	41·1	37·2	31
	12"	12"	123	45	77·8	64·8	55·5	48·6	43·2	38·9	35·4	32·4	29·9	..		..	.	.	..
	15"	12"	126	46	99·6	83·0	71·3	62·3	55·3	49·8	45·7	41·9	38·9	36·3	33·9	..	.	.	..
	18"	12"	129	47	..	103·3	88·6	77·5	68·8	62·0	56·4	51·6	47·7	44·3	41·3	36·4	32		..
	21"	12"	137	48	..	..	104·0	91·4	81·2	73·1	66·4	60·9	56·2	52·2	48·7	43·0	38·5	34·5	..
	24"	12"	141	49	..	..	..	105·6	94·0	84·5	77·0	70·4	65·0	60·3	56·3	49·7	44·4	40·2	33
	10"	12"	93	50	44·8	37·4	32·0	28·1	24·9	22·4	..	..	..	..	..	..	..	..	..
	12"	12"	97	51	56·8	47·1	40·4	35·3	31·4	28·3	25·7	23·6	21·8	20·2	18·8	.	.	..	..
	15"	12"	103	52	75·3	62·7	53·7	47·1	41·8	37·7	34·2	31·4	28·9	26·9	25·1	..	..	..	..
	12"	14"	119	53	65·5	54·6	47·0	41·0	36·4	33·7	29·6	27·3	25·2	..	..	.	..	..	..
	15"	14"	125	59	84·3	70·2	60·2	52·7	46·8	42·1	38·3	35·1	32·4	30·1	28·1	..	..	..	..
	18"	14"	131	60	..	86·0	73·6	64·4	57·3	51·5	46·9	43·0	39·6	36·8	34·3	30·3	27·1	..	..
	21"	14"	145	61	..	..	87·6	76·5	67·7	60·9	55·4	50·8	46·9	43·5	40·6	35·8	32·0	28·9	.
	24"	14"	153	62	..	..	..	87·8	78·0	70·2	64·0	58·5	54·0	50·2	46·8	41·3	36·9	33·4	28
	10"	16"	103	54	50·4	42·0	36·1	31·5	28·1	25·2	22·9	..	..	..	..	..	..	.	..
	12"	16"	107	55	63·5	52·9	45·4	39·7	35·3	31·7	28·8	26·5	24·4	22·7	21·2	..	..	..	..
	15"	16"	113	56	84·4	70·3	60·2	52·7	46·8	42·2	38·3	35·2	32·4	30·1	28·1	24·8	..	..	..
	12"	18"	158	63	93·1	77·6	66·5	57·1	51·1	47·5	42·3	38·8	36·0	..	..	..	..	..	..
	15"	18"	164	64	20·5	100·4	86·0	74·2	67·0	60·2	54·8	50·2	46·3	43·0	40·1	..	..	.	.
	18"	18"	170	65	..	123·1	105·5	92·3	82·0	73·5	67·1	61·5	56·8	52·7	49·2	43·4	38·8	..	.
	21"	18"	181	66	..	..	125·0	109·1	97·3	87·5	79·6	73·0	67·3	62·5	58·3	51·5	46·0	41·6	..
	24"	18"	191	67	..	..	..	126·4	112·4	101·1	92·0	84·3	78·0	72·2	67·4	59·5	53·2	48·2	40

NOTE.—*Add to weight for any Stiffners required.*

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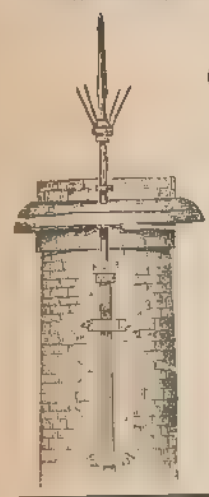

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LIGHTNING CONDUCTORS.

By RICHARD ANDERSON & CO.

Since the time when the first lightning conductor was set up over a public building in Europe, in 1760 on the Steeple of the Church of St. Jacob's, at Hamburg, there has been many improvements in the erection of lightning conductors but the principle remains the same. The report of the Lightning Rod Conference of London 1882 recommends that conductors should not be less than one eighth of an inch thick three quarters of an inch wide, weighing six ounces per foot. Messrs. Anderson & Co. of 101, Leadenhall street, have lately perfected an improved clamp, so that any number of smaller tapes can be carried from different parts of the building to the one main part of the conductor which is carried to earth. By this method a great deal of copper is saved and the conductor made more effective. The same firm have also a method by which a good earth connection can be made in dry and rocky soil, the same having been carried out by them for the War Office for powder magazines.

By ALFRED HANDS, F.R. MET. SOC.

Lightning conductors have been in use for nearly a century and a half, during which time not a single case has occurred of a conductor properly applied, and in good order, having failed in its protective capacity. They must however, be carefully erected in accordance with the scientific laws which govern the subject, or they may be worse than useless. No building, whatever its situation or construction, is free from the danger of being struck by lightning, and therefore wherever possible a proper system of protection should be specified by the architect. The building to be protected should be examined by an expert, or plans showing the metal work employed in its construction be submitted for inspection whenever advice is required as to the system necessary.

Copper, having a high relative conductivity, viz., more than six times that of iron, is the metal almost exclusively used for the purpose in Great Britain. It should as pure as possible, having a conductivity of 98 %. The best forms of conductor are copper tape and copper rope, as being manufactured in great lengths without joints, they are less liable to get out of order than jointed conductors. The former is mostly recommended as being more durable and better in appearance, and being readily adapted to the irregular surfaces of buildings.

The sizes required for different buildings depend upon the length of the conductor and other circumstances, but the following are mostly used: Total length of conductor: Under 70 ft. [illegible] in. or [illegible] in. [illegible] copper tape or [illegible] in. copper rope over 70 ft. and under 120 ft. 1 in. [illegible] in. or 2 in. [illegible] in. copper tape, or [illegible] in. copper rope, over 120 ft. [illegible] in. or [illegible] in. copper tape. The upper terminal of a conductor should consist of an elevation rod 4 ft. to 6 ft. (or even more) in length with multiple points. To prevent oxidation and consequent blunting, these points may be electro plated or have platinum tips. Several elevation rods may be fixed on one building as required and branch conductors be carried from them, and connected to the main conductor. Branch conductors should also be carried from vanes, finials, or other metals which it may be necessary to connect with the conductor.

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A most important feature in the lightning conductor is the earth connection, as, if this is defective, the conductor may be absolutely useless It should be carried out some distance from the foundation of the building, and sufficiently deep to ensure its being always in contact with moist earth or water. A plate of copper of suitable size should then be attached by a good electrical joint and well bedded in coke. Where iron water mains are available, conductors may be attached to them, and the copper plate be dispensed with, but care must then be taken to prevent galvanic action through the contact of the two dissimilar metals, or the connection will soon become imperfect

All joints in copper tape conductors should be made by rivetting and soldering, and in copper rope by splicing and soldering.

On completion the conductor should be tested to ensure its being in a satisfactory condition, and also periodically afterwards, to see that its efficiency has not through accident or other cause become impaired.

For information respecting Lightning Conductors manufactured and fitted by Alfred Hands, see advertisement in Section N in the COMPLETE CATALOGUE.

LIMES, CEMENTS, PLASTERS, &c.

Grey Chalk Lime.—Called in London stone lime, is feebly hydraulic, and is obtained from the lower chalk beds at Halling, Dorking, Lewes, Petersfield, and Merstham. It is the lime generally used for mortar.

Cements.—There is no precise line between hydraulic limes and cements, the latter containing a larger proportion of clay than limes

Natural Cements are calcined from stones containing carbonate, of lime, or a mixture of carbonate of lime and magnesia, together with a proportion of from 30 to 50 per cent. of clay More than 40 per cent., however, is injurious to the cements.

Roman Cement is made from argillo-calcareous kidney-shaped stones, called septaria or nodules. The colour is a rich brown, which is no test of its quality. Roman cement is quick setting and weak, is rapidly reduced in strength by the addition of sand, and quickly becomes inert unless kept close and dry.

Hydraulic Cements are artificial cements made in a similar manner to hydraulic lime, but with a larger proportion of clay, silica, alumina, magnesia, &c. They do not slake after calcination, and some set under water at a temperature of 65 degrees from 3 to 5 minutes, and others in as many hours.

PORTLAND CEMENT.

The cement mostly used in England, is made on the banks of the Thames and the Medway, from chalk and clay mixed by what is known as the wet process. Portland cement is also made by what is known as the dry process.

Good cement should be ground fine, should be heavy, and weigh from 95 to 130 pounds per striked bushel, and be of grey or greenish-grey colour. Slow-setting cement is strongest. Sand used with cement should be perfectly clean and sharp.

At the end of one year after setting, 1 of sand and 1 of cement is about ⅔ths the strength of neat cement. 2 of sand and 1 of cement is about ½ the strength of neat cement 3 of sand and 1 of cement is about ⅓rd the strength of neat cement. 4 of sand and 1 of cement is about ¼th the strength of neat cement. 5 of sand and 1 of cement is about ⅕th the strength of neat cement.

The cement manufactured by Messrs. Nelson & Co. at Stockton, Rugby, is of a superior kind It is ground so that not more than 5 per cent. residue remains in a sieve with 2,500 meshes to the square inch, and at seven days the briquettes stand a strain of 500 to 600 lbs. per square inch.

It has been used extensively for the last twenty years by the Thames Conservators for their new locks, and in important building and engineering works.

Amongst manufacturers of Portland Cement of superior quality should also be named Messrs Greaves, Bull and Lakin, who for many years have held a leading position in the trade for Cement and Blue Lias Lime.

Selenitic Cement is an invention of General Scott's. It was made by mixing a small proportion (usually 5 per cent.) of sulphate of lime—*i.e.*, Plaster of Paris—with any lime having hydraulic properties, the best for the purpose being the Lias limes. Lime may also be selenitised by mixing with it sulphuric acid, or by adding a small proportion of any sulphate. The effect of the sulphate in the lime is to arrest the slaking action, to quicken its setting, to give the lime a considerable increase of strength, and to enable a large proportion of sand to be used. Messrs Nelson and Sons and Greaves, Bull and Lakin are large manufacturers of the Selenitic Cement.

PLASTERS.

The following are some of the principal plasters used.

Gypsum, or hydrated sulphate of lime, is found in Cheshire, Derbyshire, Nottinghamshire, and Westmoreland, in England, and also extensively around Paris, and is the basis of most plasters.

Plaster of Paris is gypsum gently calcined till nearly the whole of the moisture is driven off.

Keen's Cement is Plaster of Paris soaked in a solution of alum and recalcined.

Parian Cement is gypsum calcined and powdered and mixed with a solution of borax, recalcined, ground, and mixed with a solution of alum.

There are two qualities of this cement, the "*superfine*" and the "*coarse*."

Martin's Cement is prepared in a similar manner to Parian cement, except that carbonate of potash is substituted for borax, and hydrochloric acid is sometimes added.

There are three qualities of this cement, "*superfine*," "*fine*," and "*coarse*."

Barrow Hydraulic Plaster possesses valuable characteristics which give it great advantages over the plaster in ordinary use, which, when well known, will lead to its extensive use. They are

(1st.) Its non-absorbent property, which renders it especially suitable for use where the atmosphere is charged with contamination, or when the surface is to be painted over, it requiring fewer coats of paint to cover than ordinary plaster.

(2nd.) Its hydraulic property which renders it suitable for use in damp places.

(3rd.) The absence of "*blowing*" in the work executed with it.

(4th.) Its cheapness, it being supplied at a cheaper rate than ordinary plaster, and requiring less labour in use, as the running of lime is avoided.

The plaster is manufactured by Messrs. John Ellis & Sons, of Leicester.

PLASTERER'S MEMORANDA.

2 Hods Plaster, &c. (about)	1 Bushel.
8 Bushels of Ground Lime	1 Bag.
3 „ Blue Lias Lime, Ground (Warwickshire)	1 Bag.
11 Bags „ „ „ „ „	1 Ton.
3 Bushels „ „ Selenitic „ „	1 Bag.
12 Bags „ „ „ „ „	1 Ton.
21 Bushels (striked) or 27 cubic ft. of Lime or Sand	1 Cubic yd.
3 „ of Roman or Lias Cement	1 Bag
10 Bags „ „ „	1 Ton.
¾ full Bshl. of Parian Cement	1 Hod.
30 Bushels of Sand	1 Load.
14 Lbs. Plaster	1 Bag
7 Bags „	1 Bushel
1¼ Bushel Plaster	= 1 Cwt.

PORTLAND CEMENT

2 Centals (200 lbs.), Custom of London Trade ..	= 1 Bag.
2 Bushels (2 cwt.). „ Midlands „	1 Bag.
1 Cask varies from 375 to 400 lbs. gross, general London Custom for Export	= 400 lbs.
1 Cask of Portland holds about 4 cubic feet.	
10 Cwt Fire Clay	1 Cask.
1 Firkin Plaster	= ¾ Cwt.
1 „ of Double Size	= 48 Lbs
2 Dozen Whiting	1 Cwt.

Single Laths are 3 ft. or 4 ft. long, and 1 in × $\frac{3}{16}$ in Lath and a half Laths are ¼ in. thick; Double Laths, ⅜ in.

125 Laths 4 ft. long 1 Bundle

1 Bundle of Laths and 500 Nails will cover about 5 superficial Yards.

100 superficial Yards "once" done requires 12 lbs. Whiting ½ lb Blue Black, 1½ Gallons of Size.

100 superficial Yards, if "twice" done requires 21 lbs. of Whiting, ¾ lbs. Blue Black, 2¾ Gallons of Size.

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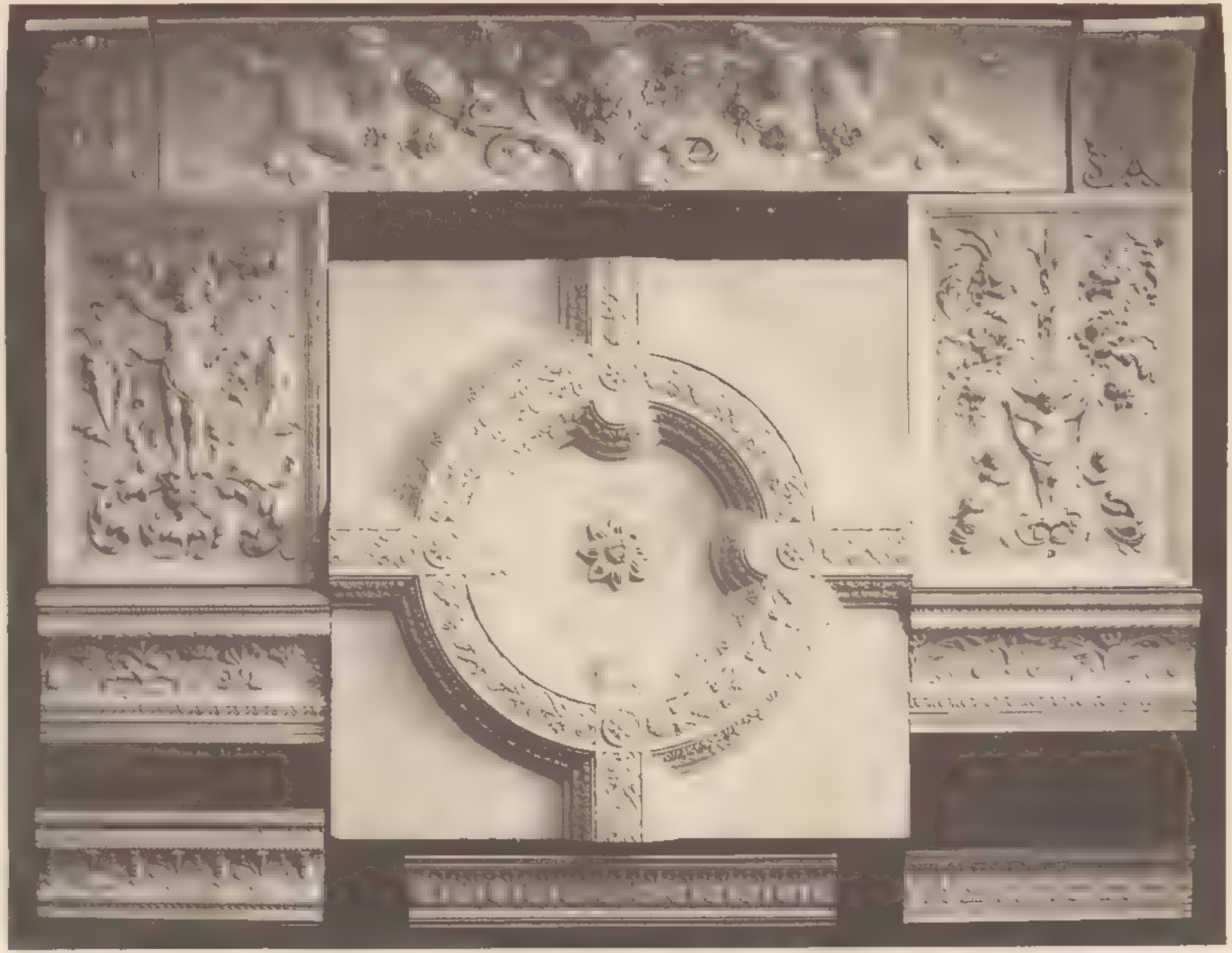

PLASTER DECORATION.

MANUFACTURED BY THE HITCHIN'S FIREPROOF PLASTERING COMPANY.

SEE OVER

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Hitchins' Fireproof Plastering Co.,

LIMITED.

Office: 1, GRESHAM BUILDINGS, BASINGHALL STREET, E.C.

Works: GRAYLING WORKS, MANOR ROAD, STOKE NEWINGTON.

Telegraphic Address. "PLASTERING, LONDON."

Gold Medal awarded Health Exhibition, 1884, for Fireproof and Sanitary Plastering.
Silver Medal for Fireproof and Ornamental Plastering awarded by Society of Architects, 1886 and 1887
Bronze Medal for General Excellence in Plastering, awarded Brussels Exhibition, 1888.
"Architect and Builder" Exhibition, Agricultural Hall, 1889. The only Gold Medal awarded.

THE Directors beg particularly to call the attention of Architects, Builders, and Decorators to their Sheet of Designs for Fibrous Plastering (see p. 462), they having added this Branch to their well-known system of Fireproof and Slab Plastering, and are prepared to tender for the same to any extent (references given to leading Architects for whom work has already been executed).

The Company's system of Fireproof Plastering for Ceilings, Walls, and Casings for Iron work has been recognised by the Metropolitan Board of Works and the Committee of the United Fire Insurance Companies as being thoroughly adapted for the purposes for which it is intended, and it has also been adopted by the Admiralty, War Department, and School Board for London, for use at New Stores, Devonport Dockyard, Barracks at Hounslow, and various School Buildings, in addition to its use at many of the largest business establishments in London and elsewhere with thorough success.

By a system the Company have adopted of backing their Slabs, they are rendered specially adapted in preventing the annoyance caused from damp walls

They have also secured the sole right of supplying Fibrous Wood Pulp, consisting of Cornices and Centre Flowers of approved Stock Designs, being specially suitable on account of its extreme lightness and the readiness with which it is fixed for mansions already finished, but requiring extra ornamentation in certain rooms. The Company are prepared to supply this material to any amount.

Work in Carton Piene executed from Stock or Architects' Designs.

Over 80,000 yards super supplied, fixed, and finished by the Company during the past year.

For list of few of the works see below:

Amongst the Public Buildings recently erected, the following may be mentioned—

THE NEW STOCK EXCHANGE.—(From the designs and under the superintendence of J. J. Cole, Esq.) The whole of the Ceilings of which, including the fine Dome and Transepts, are in the Company's material and executed by them.

THE HOTEL METROPOLE.—The whole of the wood work of the Kitchens, Roof, and Lifts have been protected from the enormous heat of the large Stoves, requisite for the purposes of that Establishment (by direction of the Fire Insurance Authorities).

ALSO THE FOLLOWING

Essex Hall, Essex Street, Strand	Chatfield Clarke, Esq.
Barrett & Co., New Factory, Vauxhall	E. Rawlings, Esq.
W. Whiteley's, Westbourne Grove and Queen's Road (*over 20,000 yards super*)	
Stock Exchange	Ebenezer Saunders, Esq
Cranley Mansions	J. J. Cole, Esq.
Hackney Town Hall	W. Colbran, Esq.
Breweries, &c.	Thornton Green, Esq.
Warehouses, &c.	Barnes Kinsey, Esq
Gatti's Music Hall, Westminster Bridge Road, and other works	C. Bell, Esq
"Bull's Head," Bread Street	A. J Bolton, Esq.
Connaught Mansions, Victoria Street, Westminster, and other works	Benjamin Tabberer, Esq.
New Chambers, Garden Court, Temple	H H Collins, Esq
British and Foreign Bible Society	J P St Aubyn, Esq
Crowder's Music Hall, Greenwich	J J Anson, Esq
Grand Theatre, Islington	F. Buckle, Esq.
Mansion, St. Leonards on Sea	F. Matcham, Esq.
Warehouses, London Wall Avenue	W. H Murray, Esq.
Queen's Hotel, Eastbourne	L. Solomons, Esq.
	H. Curry, Esq.

Café, Crown Street, W.	J. Woodward, Esq.
Wharf, Dowgate Dock	Douglas J. Mathews, Esq.
Warehouses	W. B Cathenwood, Esq.
Warehouses, Silber & Fleming, Wood Street, and other works	Messrs. Ford & Hesketh.
Warehouses for Hitchcock, Williams, & Co.	,, Searle & Hayes.
College, Cheshunt	,, Lander & Bedell.
Bethnal Green Dispensary, and other works	,, T. & W. Stone.
Warehouses, &c.	,, Karslake & Mortimer.
Watts & Co., Tottenham Court Road	,, Hovenden, Heath, & Berridge.
Shoolbred & Co., Tottenham Court Road	,, Ditto.
Stowel Park (the seat of Lord Eldon)	,, Belcher & Belcher
Warehouses, Ludgate Hill	,, Carritt & Monier Williams.
"Fonthill," Salisbury	,, Gordon & Lowther
Mansion, West Hampstead	,, Horace Field & Moore.
Turkish Baths, Dalston	C. R. Hancock, Esq.
Alexandra Hotel, St. Leonards	Messrs. Elworthy & Son.

PUGGING. The Company strongly recommend for use their sound and Fire resisting Pugging which is supplied and fixed in Slabs thoroughly dry, the advantage of which must be obvious to practical men Over 100,000 feet super supplied and specified during 1886.

CORNICES AND GIRDER CASINGS.—The Company keep a large stock of same in various Designs and sizes ready for immediate fixing, or can supply to order at short notice.

Slab Plastering, 15,000 yards super always in stock, *thoroughly dry*, at reduced prices.

(SEE OVE

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Superficial Yards covered by Cement, rendering.

	½ in.	⅝ in.	¾ in.	⅞ in	1 in.
1 Bushel of Cement	2¾	2⅜	2	1⅞	1
1 do. of do. and 1 of Sand	4⅝	3⅞	3⅞	2⅞	2¼
1 do. of do. and 2 "	6⅞	5½	4¼	4	3¼
1 do. of do. and 3 "	8½	7½	6⅝	5⅞	4½

¾ inch is the usual thickness

1 Cubic Yard of Lime, 2 yards of Sand, and 3 Bushels of Hair will cover 75 yards of Render and set on Brick, and 70 yards on Lath, or 65 yards Plaster or Render 2 Coats and set on, Brick and 60 yards on Lath.

NOTICES, APPLICATIONS, AND DEPOSIT OF PLANS, &c.

Under the provisions of the Metropolitan Building Act and the Metropolis Management Acts.

1. To Vestry or District Boards.
2. To District Surveyors (see District Surveyors).
3. Service of notices, summonses, and orders.
4. Power to enter houses, &c., to comply with notice.
5. Deposit of plans, &c.
6. Applications, &c.

1.—NOTICES TO VESTRIES OR DISTRICT BOARDS.

Seven days' notice in writing to be given before commencing to build, and before making drains to drain directly or indirectly into any sewer under jurisdiction of the vestry or board.

3. SERVICE OF NOTICES, SUMMONSES, AND ORDERS.

A notice, summons, or order may be served 1, Personally; 2, on a builder, by leaving the same, or sending it in a registered letter addressed to him at his place of address as stated by him in his notice to the District Surveyor, or by putting up such notice, summons, or order on a conspicuous part of the building or premises to which it relates; 3, or owner or occupier, by leaving the same with the occupier or some inmate of his abode, or if there is no occupier, by putting up such notice, summons, or order on a conspicuous part of the building or premises to which it relates, and it is not necessary to name the owner or occupier. If the name and residence of owner or of his agent be known, then the notice, summons, or order must be sent by post in a registered letter addressed to the residence or last known residence of such owner or agent; 4, On any District Surveyor by leaving the same at his office.

4. POWER OF OWNER TO ENTER HOUSES TO COMPLY WITH NOTICES OR ORDERS.

The owner, builder, or person on whom notice has been served may, after giving seven days' notice in writing to the occupier, and producing the notice or order, enter and do all works as are necessary. If any person refuses to grant permission, or fails to render all reasonable assistance, such person is liable to a penalty of £20 for each offence.

5. DEPOSIT OF PLANS, &c.

Plans and sections of public buildings, or the alteration thereof, or addition thereto, must be deposited with the District Surveyor at the time of giving notice.

6. APPLICATIONS TO THE LONDON COUNTY COUNCIL.

Applications must be on foolscap paper, drawings must be on tracing-linen of sufficient size to permit of approval of the Council being endorsed thereon. The scale must be drawn upon plans and not expressed in words, and the north point must be marked on block plans.

The nature of the application must be stated, the situation of the road, building, or structure, and the name of the person on whose behalf the application is made, and reference must be given to the section of the Act under which sanction is sought.

Drawings must be in duplicate. In the case of the approval of lines of frontage and projections, one additional copy; if the approval of new streets, two additional copies will be required. Plans submitted for lines of frontage and projections must be drawn to a scale of 22 feet to the inch, and must show the situation of the building in relation to others adjacent. The extent of the projection has to be figured on the plans, and the site tinted in red. Existing buildings to be shown by grey tint, and ground given up by blue.

In addition to the plans, drawings will also be required in the following cases:—For porches or porticoes, a plan and side elevation to a scale of one-eighth of an inch to the foot; for verandahs and balconies, a plan and section to a scale of one-eighth of an inch to the foot; and for eaves and barge boards a section and elevation to a scale of one quarter of an inch to the foot.

The names and addresses of the owners and occupiers of the two adjoining buildings on each side of the proposed projection must likewise be sent.

Plans of new streets must be to a scale of 88 feet to the inch, and must be accompanied by longitudinal and cross sections to a scale of 88 feet to the inch horizontal, and 11 feet to the inch vertical, showing the natural and intended surfaces of the streets, and also by a key plan of the locality. The levels are to be computed from ordnance or some other fixed datum

The name of the proposed street must be given. The name must not be already in use.

Applications for the approval of any iron building, furnace chimney shaft, or other structure, must be accompanied by a block plan of the premises, showing the position of the building or structure, and by a plan, elevation, and section, to a scale of one-eighth of an inch to the foot, together with such details to a larger scale as may be necessary to show the construction.

Application for an extension of the period for the use of a temporary building must be accompanied by a certificate from the District Surveyor as to its condition, and as to its stability for such further period as may be applied for, and also as to any repairs which may be requisite.

Persons applying for the approval of buildings, under the 56th section of the Building Act, must pay a fee of five shillings on depositing the application, and a further fee of five shillings on obtaining a notification of the order approving of the design for a building, and in no case will the work be allowed to proceed until the fees are paid.

OPEN SPACES TO DWELLING HOUSES.

(*Metropolitan Building Act and Amendment Act.*)

Buildings used, or intended to be used, as a dwelling house, unless all the rooms can be lighted and ventilated from a street or alley adjoining, must have in the rear or side open space exclusively belonging thereto of at least 100 square feet. New buildings began to be erected on a site not previously occupied in whole or in part by a building intended to be used as a dwelling-house must have in the rear thereof, exclusively belonging thereto, an open space above the ceiling of the ground floor storey of the following extent:—1. If the frontage be 15 feet and under, 150 square feet at least; 2 If the frontage exceeds 15 feet and is not more than 20 feet, 200 square feet at least; 3. If the frontage exceeds 20 feet and is not more than 30 feet, 300 square feet at least; 4. If the frontage exceeds 30 feet, 450 square feet at least.

PAINTERS' MEMORANDA.

The surfaces to be painted must be prepared by killing knots in woodwork, stopping holes, making good defects, and rubbing down irregularities

The following materials are mostly used in paints:—

Bases—White lead, red lead, zinc white, oxide of iron. *Vehicles*—Oils, spirits of turpentine *Solvents*—Spirits of turpentine. *Driers*—Litharge, acetate of lead, sulphate of zinc, and binoxide of manganese, red lead, &c. *Colouring Pigments*—Ochres, lampblack, umber, sienna, and metallic salts

For Priming White lead sometimes mixed with chalk, diluted with linseed oil. *Knotting*—Red lead and size. *Putty*—Spanish whiting and linseed oil, well beaten, and kneaded into a stiff paste.

One Pound of knotting is allowed for 150 yards of painting on woodwork; one pound of putty for 20 yards of stopping, one pound of paint for four yards super first coat, and six yards super each additional coat.

For Painting Iron the best paints are those formed of some of the oxides of iron.

To Remove Paint from Wood, 2 lbs. of washing soda, mixed with ½ bushel of quicklime, to the consistency of thick cream, spread on and kept moist for one hour.

Szerelmey Iron Paint—The chief feature of this material is as an anti corrosive paint for application to iron under all circumstances, but its numerous qualities give it great value for use upon all materials indoors or outdoors.

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PARSONAGE HOUSES

RULES AND INSTRUCTIONS OF THE ECCLESIASTICAL COMMISSIONERS FOR ENGLAND.

(*Office* :—No. 10, Whitehall Place, London, S.W.)

NOTE.—*Should the approval of the plans by the Governors of Queen Anne's Bounty be necessary, the proceedings will be much facilitated if the approval of the Ecclesiastical Commissioners for England be first obtained.*

The Ecclesiastical Commissioners for England, having regard, on the one hand to the limited incomes of those benefices for which they assist in providing parsonage houses, and on the other to the importance of securing to every clergyman a convenient and comfortable residence, are of opinion that the following amount of accommodation, as nearly as may be, should, as a general rule, be provided, viz. :—

Two sitting rooms, not less than sixteen feet by fourteen, study about fourteen feet by twelve, kitchen, and scullery, and not fewer than five bedrooms, each bedroom having a fire place There should also be a pantry or china-closet, larder, water-closet, wine and beer cellar, coal-house, dustbin, &c.

The law of dilapidations affecting ecclesiastical houses of residence renders it essential that particular attention should be paid to stability, and with a view to economy and the avoidance of dilapidation risks, the Commissioners strongly recommend that ornamental features should, as much as possible, be avoided.

Houses to be built

The following Plans * Specification, and Estimate must, in every case, be sent for the approval of the Commissioners, viz. :—

1. A block plan of the site, with the points of the compass marked showing the position of the house, and the direction of the drains, &c., together with sections indicating the slope of the ground (if any), and a description of the substratum on which the house is to be built, whether loam, sand, clay, chalk, rock, or otherwise.
2. A plan of each floor, including basement and attics (if any).
3. A plan of the roofs.
4. An elevation of each front.
5. Two sections, at the least.

All the above to be drawn to a scale of one eighth of an inch to a foot.

The sizes of the rooms, the openings, the footings to the foundations, the walls, and the scantling of all timbers, to be accurately shown and figured.

The specification to contain full details, and to have a marginal reference opposite the description of each important part of the building in the several branches of trade, thus:—

Footings,	Pointings,	Hearths,	Skirtings,
Walls,	Damp-proof course,	Floors,	Doors,
Stone dressings,	Flues,	Roofs,	Windows,
&c.	&c.	&c.	&c.

and to include drainage, well, tanks, cisterns, pumps, pipes, and everything necessary for supplying the house with water; also stoves, grates, twenty-gallon copper, sink, kitchen dresser, fittings in pantry, wine cellar, &c.

The estimate must include the cost of all matters mentioned in the specification.

All external walls to be of hard well burnt brick or stone, but without any coating of cement or rough cast; if of brick, to be not less than fourteen inches, if of stone, not less than twenty inches thick, internal walls, brick, nine inches, stone rubble or random course of proportionate thickness.

In exposed positions the thickness of external walls on the weather sides must be increased according to local requirements, such walls may be built hollow great care being taken to bond them properly especially under the wall plates, and special provision must be made for protection of window and door openings, by a weather proof course built in over each The bonding ties in hollow walls must be impervious to damp.

Battening may be used, when the nature of the materials of which walls are built requires it, for avoidance of internal dampness; but it is worse than useless when applied to walls not first made water-proof

In all walls, external and internal, a course of slate laid in cement asphalte or some other impervious material, must be inserted above the ground line through their entire thickness, to prevent the damp rising Gratings to be provided for ventilation under floors, to be so placed as to ensure a perfect current of air below the joists.

Stone or brick to be used for all chimney stacks copings external cornices, ornaments, &c., and five pound for all lead flashings, &c. Cement or zinc for any of the above purposes will not be allowed.

Basement stairs to be of stone, slate, or suitable bricks.

All hearths to be laid on brick trimmer arches or rough stone slabs.

Drains to be constructed with glazed stoneware pipes, with socket joints not less than six inches in diameter for foul drainage, or four inches for rain-water and to be carefully trapped where necessary Overflow drains from rain-water tanks must not be connected with any sewage or foul-water drain.

No main partitions to be constructed of wood either in the basement or ground floor.

Baltic wood or oak to be used in the roofs, joists, and partitions, and all other constructive parts of the house, also for all external joiners' work and floors.

The cills of all wood window frames to be of oak.

No joists or rafters to exceed one foot apart in the clear.

* These when approved, will be marked accordingly, and returned to the parties: they may then be used as working drawings; but must be produced to the Commissioners' architect when he surveys the building.

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The scantlings of joists for floors to be not less than is indicated by the following table:—

Length of bearing in Feet	Breadth 2½	Length of bearing in Feet	Breadth 2½	Length of bearing in Feet	Breadth 2½
	Depth in inches.		Depth in inches.		Depth in inches.
5	5	10	8	15	10½
6	5½	11	8½	16	11
7	6½	12	9	17	12
8	7	13	9½	18	12 × 3
9	7½	14	10		

When the length of bearing exceeds eight feet, the joists must be strutted by one row, and when it exceeds twelve feet by two rows of struts.

As the construction of the roofs will depend upon the design of the house, no table of scantlings is given but the timbers must be strong, and of a substance proportionate to the foregoing table. The unsupported bearing of purlins must not exceed ten feet. Convenient means of access to the interior of roofs and to all lead gutters to be provided.

Roof coverings to be of slate stone, or tiles, all slates to be fastened with copper nails The interior of roof coverings to be pointed.

Cisterns when not of stone or slate, to be lined with lead, the sides to be of six pounds, and the bottom of eight pounds to the foot superficial, at the least.

Middle roof and parapet gutters to be of seven-pound lead. Eaves gutters and rain-water pipes to be of cast iron.

Wood and iron work to have four coats of paint throughout, but if preferred internal woodwork may be varnished only or stained and varnished.

The paperhanging need not be included in the specification and contract.

Houses to be purchased.

Should it in any case appear that, from difficulties in procuring a site, or from other circumstances, it would be more desirable to purchase for a parsonage a house already built the Commissioners will not object to the adoption of such a course provided that a house of freehold tenure and in other respects such as they can approve can be obtained, but, before sanctioning the appropriation to this purpose of the monies held by them in favour of a cure, they will require to be furnished with fully figured plans, showing the character and extent of the house offices, and premises, and the thickness of all the walls, together with a report from a professional man, containing full particulars on the following points viz.

(1.) On site of house, with reference to neighbouring buildings, and whether free from nuisances, present or contingent

(2.) On drainage, and especially on construction and trapping of drains, and on water supply, whether by well, tank, or from other sources, quality, quantity, &c.

(3.) On height of each story.

(4.) On construction, material, and condition of walls, whether free from settlements, solid when struck with a hammer, dry in every part, and battened or not.

(5.) On internal partitions, whether of timber, stone, or brick.

(6.) On hearths, whether laid on brick or stone arches, or how otherwise.

(7.) On construction of the roof, stating scantlings and length of bearing, description of wood used, and present state thereof

(8.) On covering of roof, material used, if slate, description of nails, and present condition of each part, quality of battens or laths.

(9.) On lead gutters (if any), stating fall, depth of drips, length of sheets, how laid, and whether any means of access provided.

(10.) On cisterns, how constructed, how lined, where placed

(11.) On eaves gutters, and rain-water pipes, stating material used, and present condition

(12.) On ceilings, whether sound or much cracked, and if the latter, from what cause.

(13.) On boarded floors; whether they vibrate or cause the sashes to shake when jumped on, whether the boards are good, and skirtings close and properly fixed

(14.) On doors, windows, and shutters, whether sashes are strong, frames sound, and cills of oak; shutters, whether close fitting and in good order, stating thicknesses, mode of finishing and description and condition of fastenings.

(15.) On paved floors, and in which rooms used, whether laid with flags, bricks, or tiles, and their present condition and whether perfectly dry.

(16.) On office fittings, and grates, bells, &c.

Payments for Houses.

Houses to be purchased should be conveyed to the Commissioners, or, should there be any special circumstances requiring it, to the Governors of Queen Anne's Bounty In the latter case the Commissioners will be prepared to pay over the monies in their hands, or such portion as may be necessary, to the Governors on receiving a notification from the solicitor to that Board that the conveyance is ready for completion, provided that the Commissioners shall have been previously satisfied that any repairs or alterations which they may have required have been duly performed.

Previously to any payment being made towards the erection of a parsonage house, the Commissioners will require to be satisfied that the site is part of the ancient glebe, or has been duly conveyed in trust for the living, and they must also be informed of the precise amount of the contract or contracts for the building

The following regulations are usually observed with regard to payments on account during the progress of the works:—

The monies held by the Commissioners are as a general rule payable in *five* instalments.

A first instalment is payable when "*the joists of the chamber floors have been laid,*"

A second when "*the house has been roofed in, the gutters and rain-water pipes fixed, and the drainage completed;*"

A third when "*the plastering has been done;*"

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A fourth when "*the house has been completed in accordance with the Plans and Specifications approved by the Board*"

Each of these payments is made only upon the receipt of a certificate from the local architect, countersigned by the incumbent, which must state that [*here insert one of the four forms of words printed above in* Italic *as it may happen, in the particular case to be the first, second, third, or fourth instalment, the payment of which is desired*]

The fifth and final instalment is paid so soon as the house has been surveyed by the Commissioners' architect, and they have received from him a certificate that the building has been completed in accordance with the Plans and Specification previously approved by them.

The precise amount of each instalment is determined in reference to the amount of the contract, and of the monies held by the Commissioners.

Where the monies in the hands of the Commissioners are equivalent to or in excess of the amount of the contract, the practice of the Commissioners is to defray a moiety of the contract by two equal instalments, payable at each of the first two stages above indicated and to divide the balance of the amount of the contract into three equal parts, which are receivable at the third, fourth, and fifth stages, subject in every case to the receipt of the requisite certificates.

Where, however, the Commissioners hold only a small sum towards the cost of a house their practice is, if the amount shall not exceed £200 to retain the whole of it until the building has been surveyed and reported on by their architect, or if a larger sum than £200 be in their hands, to make a payment at the second or third of the stages above named provided however, that in no case a less sum than £200 is retained until after the completion of the house to the satisfaction of the Commissioners

Upon the completion of a parsonage, the Commissioners, before making the final payment require, as above stated, that the building be surveyed on their behalf, and that it be certified to have been duly completed in accordance with the approved plans and specification

With a view to avoiding the expense of a separate journey to make the survey in each case the Commissioners have made the following regulations :—

1 A regular circuit, for the purpose of such surveys, will be made by the Commissioners' architect, as soon as may be after each quarter day.

2 Incumbents, whose houses may be completed, and who may desire to have them surveyed during any particular circuit, must give notice to that effect at least one fortnight before the quarter day In case of completion at any intervening period, notice may at any time be given so as to ensure an earlier survey in case of opportunity presenting itself.

3. Houses should be thoroughly and completely finished in every respect, except the paperhanging, before a survey is made, and such survey should not be applied for without an assurance that this will be the case.

4 The Commissioners will pay the expense of one survey, but in case the building be found to be defective to such an extent as to preclude the architect from giving the necessary certificate, and a second survey be consequently required, the cost of such second survey will be deducted from the amount of the grant Such expense would, perhaps, rightfully fall on the builder, and due warning of this should therefore be given to him by the incumbent.

NOTE —The plans and specification approved by the Commissioners must be produced for the inspection of their architect at the time of his survey, and it is particularly requested that the incumbent will take care to have them in readiness before such survey is made.

PAVEMENT LIGHTS.

Pavement lights are now constructed in combination with encaustic and tesselated tiles, by which means a great variety of ornamental designs may be had for use in entrances, corridors landings, &c, making the floors at once illuminating and ornamental. Cellar flaps, which were generally made of wood are now constructed as pavement lights, made to open as folding lights, or to slide on rollers with guttered frames. They form an indestructible illuminating and water-tight cover to cellar openings, which, though more expensive in the first cost than wooden flaps, are in the end cheaper and better in every respect.

Messrs. Hayward Brothers and Eckstein manufacture Hayward's Patent Sem. Prism Lights which are the best for thoroughly illuminating the back portion of basements as well as the space immediately below them The lights are glazed with alternate rows of semi-prism and convex lenses, the former being arranged at such an angle as to reflect the greatest possible amount of light into basement, while the latter give a good vertical or direct down light as shown in the COMPLETE CATALOGUE The frames in which the lenses are fitted, are studded with small nibs or projections which afford a firm foothold.

Hayward's latest improved reflecting Stallboard Lights are usually fixed over the pavement lights when practicable, and these add considerably to the effect in basement.

Lights are also made sufficiently strong to withstand horse and cart traffic, and are glazed either with semi-prism or plain lenses according to the position in which they are to be fixed.

For Shop floors, &c., Hayward's checkered Lens Lights give the best results; the lenses being checkered on top diffuse the light, and at the same time have a neat and ornamental appearance. The frames of these lights are smooth on top, *i.e.*, without the nibs or projections, which would sometimes be objectionable in a shop floor, or room.

Besides the lights mentioned, this firm manufactures every other description of pavement lights, opening Flaps, Coal-plates, &c., and all the lenses used are made of the best flint glass. Further particulars will be found in the COMPLETE CATALOGUE.

ROOFS

TABLE OF SCANTLINGS OF WOOD ROOFS.

King and Queen Post Trusses, 10 feet apart, Pitch, 27° ; Slate Covering.

Span in feet.	Tie Beam.	Principal Rafters.	King Post.	Queen Post.	Small Queens.	Straining Beams.	Struts.
	Ins.	Ins	Ins	Ins.	Ins.	Ins.	Ins.
20	9 × 4	4 × 4	4 × 4	.	..	..	4 × 2
22	9½ × 5	5 × 3	5 3	.	..	..	3¾ × 2½
24	10½ × 5	5 × 4	5 · 4	..	.	..	4 × 2½
26	11 × 5½	5½ × 4	5½ × 4	.	.	..	4½ × 2½
28	11½ × 6	6 × 4	6 × 4	..	..	..	4½ × 2¾
30	12 × 6	6 × 4½	6 × 4½	.	..	.	5 × 3
32	10 × 4½	5 × 4½	..	4½ × 4	..	6¾ × 4½	4 × 2
34	10 × 5	5 × 5	..	5 × 4	..	7 × 4½	4 × 2½
36	11 × 5	6 × 5	..	5 × 4	..	7 × 5	4¼ × 2½
38	11 × 5½	6½ × 5	..	5 × 5	..	7 × 5½	4½ × 2½
40	11 × 6	6½ × 6	..	6 × 4	..	7½ × 6	4½ × 2½
42	11½ × 6	6 × 6¾	..	6 × 4½	..	8 × 6	4½ × 3
44	12 × 6	6 × 7	..	6 × 5	..	8½ × 6	4½ × 3
46	12½ × 6	6 × 7	..	6 × 5½	..	8½ × 6	4¾ × 3
48	12 × 6	6 × 7¼	..	6 × 5½	6 × 2	8 × 6	4½ × 2½
50	12 × 6	8 × 6	..	6 × 6½	6 × 2½	8½ × 6	4½ × 2¾
52	12 × 7	8½ × 7	..	6 × 7	7 × 2½	8½ × 6	4½ × 3
54	12 × 8	8½ × 7	..	7 × 6½	7 × 2½	9 × 6	4¾ × 3
56	12 × 8½	8¾ × 7	..	7 × 6¾	7 × 2½	9½ × 6	5 × 3
58	12 × 9	9 × 7	..	7 × 7	7 × 2¾	9½ × 7	5 × 3
60	13 × 9	9 × 7	..	7½ × 7	7 × 3	10 × 7	5 × 3

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PURLINS.

Bearing in feet	Distance apart in feet. 6		7		8		9	
	Depth.	Breadth	Depth.	Breadth.	Depth.	Breadth.	Depth.	Breadth.
6	6	× 3½	6	× 4	6½	× 4	6½	× 4½
7	6¾	× 4	7	× 4	7⅓	× 4	7½	× 4½
8	7½	× 4	7⅓	× 4½	8	× 4½	8¼	× 5
9	8	× 5	8½	× 5	8½	× 5½	9	× 5½
10	8½	× 5½	9	× 5½	9	× 6	9½	× 6
11	9½	× 5½	10	× 5½	10	× 6	10½	× 6
12	10	× 6	10½	× 6½	10½	× 7	11	× 7
13	10½	× 6½	11	× 6½	11	× 7	12	× 7
14	11	× 6½	11	× 7	11½	× 7	12	× 7½
15	12	× 7	12	× 7½	12	× 8	13	× 8

COMMON RAFTERS (12 in. apart).

4 feet bearing, 3 in. × 1½ in; 6 feet bearing, 3½ in. × 2 in.; 8 feet bearing, 4 in. × 2½ in.; 10 feet bearing, 5 in. × 2½ in.: 12 feet bearing, 6½ in. × 2 in.; 14 feet bearing, 7½ in. × 2½ in.

WEIGHTS ON ROOFS.

	Cwt. per Square.		Cwt. per Square.
Timber framing ..	.. 6	Tiles..	10 to 18
¾ Inch boarding ..	.. 2½	Plain Tiles	.. 9
Asphalted felt ..	.. ½	Wind (Vertical) ..	.. 36
Zinc 14 gauge ..	.. 1½	Lead or Copper at per weight per foot.	
Corrugated Iron ..	2 to 3		
Slates	8 to 9		

PITCH OF ROOFS.

	Min. Angle		Min. Angle.
Copper	.. 6°	Slates	.. 30°
Lead and Zinc ..	.. 6°	Tiles	.. 35°
Corrugated Iron ..	.. 8°	Thatch	... 45°
Asphalted felt ..	.. 12°		

SANITARY MANUFACTURES.

The great strides made in the manufacture of Sanitary Appliances, especially with respect to drain pipes, gully traps, interceptors, &c., cannot be better exemplified than by reference to the supplementary catalogue of Messrs. Broad and Co., of Paddington. Ten years since the idea of manufacturing these drain accessories in white enamelled ware would have been considered impracticable, but in the very complete and well-arranged catalogue before us we see interceptors, gully and grease traps of the most approved pattern, channel bends and junctions for use in inspection chambers, sinks and drinking water cisterns all made in this most excellent ware, and priced most moderately. Messrs. Broad and Co. tell us:—The development of this particular branch of their business is due in a great measure to the impetus given to sanitary survey by the Health Exhibition, at which they experimentally exhibited some white enamelled channels, when the opinion expressed by experts were of so encouraging a character as to lead them to the determination to introduce drainage appliances of various kinds made in white enamelled ware. The channel system of drainage is now generally adopted, and experience has suggested the utility of several new designs herein illustrated. With a view of meeting the difficulties sometimes presented in the curves of subsidiary drains, Messrs. Broad and Co. have recently designed a complete set of channels designated series C; these are all made to three-quarter section, and it will be found that almost any combination of curves or junctions may be obtained by using one or other of the designs.

We direct attention to the very simple and effective manhole cover designed by Messrs. Broad and Co. A locking gear has now been added, so that this cover is peculiarly adapted for use in public institutions, and is, in fact, largely used in some Government departments.

Amongst the sanitary goods manufactured by Messrs. Woodward & Rowley, are to be specially mentioned their series of wash-out closets. They are made in various patterns, from those of a cheap form to more elaborate designs, and can be had either with the closet and trap in one piece of earthenware or separate. These closets received the highest award at the International Health and Sanitary Exhibition in 1881.

The North British Plumbing Company, whose cast iron drain pipes are referred to under "Drainage," manufacture a patent manhole cover, locked by a powerful lever, which is a simple and at the same time a thoroughly effective air tight cover.

Durran's air-tight manhole cover consists of a cover and frame, having turned and ground bevelled faces which are brought together by a bayonet joint fastening, with ribs and inclined planes. It is claimed for this cover that it is thoroughly air, gas and water-tight, without packing or jointing material.

SEPARATION AND CONNECTION OF BUILDINGS.

(Building Act, 1855.)

Separate sets of rooms tenanted by different persons, if contained in a building exceeding 3,600 square feet in area are deemed to be separate buildings, and must be divided vertically by party walls or horizontally by party arches or fireproof floors. If any building in one occupation is divided into two or more tenements, each with a separate entrance and staircase, every such tenement is deemed to be a separate building.

Warehouses or other buildings used wholly or in part for trade purposes, or manufacture, containing more than 216,000 cubit feet must be divided by party walls, and the contents of each division must not exceed the above capacity.

Only buildings in the same occupation may be united. No opening may be made in any party wall dividing buildings which, if taken together, would contain more than 216,000 cubic feet except under the following conditions: 1. Such opening shall not exceed 7 feet in width and 8 feet in height. 2. The floor, jambs and head shall be formed of brick, stone or iron, and be closed by two wrought iron doors, each a quarter of an inch thick in the panel at a distance from each other of the full thickness of the wall. 3. Such opening to be stopped up with brick or stone when the buildings are no longer in one occupation.

(Building Act Amendment, 1860.)

Buildings used for the manufacture of machinery and boilers of steam vessels beyond the distance of three miles from St. Paul's Cathedral, are not subject to the above limitations provided they consist of one floor only, and are constructed of brick, stone, iron or other incombustible material. If of greater contents than 216,000 cubic feet, the approval of the London County Council must be obtained.

SLATES

Table of Slates, giving their average Sizes and Weights.

Name of Slate.	Size.	Gauge	No. of Squares covered by 1200.	No. required to cover 1 Square.	1st Quality. Weight per Thousand (1200.)
	in. in.				cw
Doubles	12 × 8	4½	2·8	430	17½
"	13 × 6	5	2½	480	16
Ladies	14 × 12	5½	5	240	31
"	16 × 8	6½	4½	300	25
Viscountesses ..	18 × 10	7½	6	200	36
Countesses ..	20 × 10	8½	7	175	40
Marchionesses ..	22 × 12	9½	9 1/16	130	52
Duchesses ..	24 × 12	10½	10	125	60
Sold by Weight.			Covered by 1 Ton.		
Imperials	30 × 24	13½	2½	48	
Rags	36 × 24	16½	2 2	40	
Queens	36 × 24	16½	2½	40	

Slating should never be laid with less than 2½ inch lap.

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SPECIFIC PERFORMANCE.

By H. G. DALLIMORE, *Solicitor.*

Definition.
I. *Jurisdiction.*
Generally.
Extent of.
II. *In what cases Specific Performance will not be granted.*
1. Where the Common Law remedy adequate.
2. Where contract such as Court cannot perform.
3. Where actual performance would be useless.
4. When Court cannot enforce its own decree.
5. Where contract is voluntary.
6. When Plaintiff has elected another remedy
7. Want of Mutuality.
8. Immoral contract.
9. Misrepresentation or Fraud.
10. Mistake.
11. One property for another.
12. Prejudice to third parties.
13. Lapse of Time.
14. Plaintiff has not "clean hands."
15. Great hardship.
16. Defective Title.
III. *In what cases the Court will grant Specific Performance.*
1. General rule.
2. Chattels.
3. Contracts relating to land—
(a) Generally.
(b) Unwritten contracts.
Part performance.
Misrepresentation.
Fraud.
(c) Written contracts.
Error.
Variations.
IV. *Procedure.*

SPECIFIC PERFORMANCE.

Definition. "Specific Performance" is the short name given to that branch of the law which has relation to the actual execution of contracts according to their stipulations and terms, instead of awarding damages or compensation for their non-execution.

I. JURISDICTION.

Generally. For five hundred years prior to 1873, the two great divisions of law and procedure, which controlled, defined, and enforced civil rights in England were known as the Common Law and Equity

The Common Law had at the beginning such almost unmitigated harshness about it, that it gave occasion for some of the old judges to exercise their talents in devising methods of eluding its severities, and afterwards of providing remedies for wrongs which the Common Law could not deal with at all, or deal with only in a very unsatisfactory manner. These attempts were timid and insufficient at the first, but they gradually and surely grew bolder and more enlightened until ultimately the Court of Equity (known to the general public as the Court of Chancery) obtained so firm a footing in English jurisprudence as to become an almost paramount and independent jurisdiction. "It adopted maxims from Roman Law and the Common Law of England so far as they accorded with the strict claims of justice, but rejected them when they interfered with those claims"; and by means of its own rules of procedure it was able to mitigate the severity of the Common Law, and in many instances became an acceptable medium of obtaining redress which could not be obtained in the older Courts. As the Court grew, and time passed on, it became possessed of exclusive jurisdiction in many matters, as well as in others of a jurisdiction concurrent with that of the Common Law.

This separate and independent existence of the two great branches of law and procedure in England continued until 1873 in which year the Judicature Act was passed, by which law and equity were to become "fused."

One of the matters in respect of which the Court of Equity had exclusive jurisdiction was that of compelling parties to specifically perform, or execute, a contract into which they had entered, or the specific delivery up of articles of great value or rarity, without giving the defaulter the option of getting rid of his liability by paying damages.

The Common Law allowed the defaulter to pay damages, or to complete the contract, or give up the thing in dispute, at his option, without having the power to do more than compel him to pay damages. Equity, on the other hand, could compel the completion of the contract, or delivery of the article itself. By the Judicature Act of 1873, the Common Law and Equity Courts were fused into one High Court of Justice, but the old distinctions are kept alive by having separate divisions—one the Queen's Bench Division, representing the old Common Law Courts, and the other, the Chancery Division, representing the old Court of Chancery, and certain classes of business, including specific performance, are relegated to the Chancery Division exclusively.

An earlier attempt was made to "fuse law and equity" by the County Court Act of 1865, by which jurisdiction in equity matters was conferred on the County Courts up to £500, and this was followed in 1867 by giving to the County Courts jurisdiction in specific performance of contracts for the sale, purchase, or lease of any property up to the same amount. County Courts have this equitable jurisdiction continued to them by virtue of the County Courts Act, 1888.

Extent of the Jurisdiction. This is two-fold. As to amount or value, it is limited to £500 in the County Court, but in the High Court it is unlimited; while as to the classes of cases in which both Courts will exercise their jurisdiction, they are limited by certain well defined rules, so that "the discretion exercised is judicial, and not arbitrary." And the result of many decisions is that the Courts now will not grant specific performance in certain classes of cases, but it will in certain other classes. The success or otherwise of every case for specific performance depends upon its being brought within one or other of the classes referred to.

II. CASES IN WHICH THE COURT WILL NOT GRANT SPECIFIC PERFORMANCE.

1. *When the Common Law remedy is adequate.* Contracts for the sale and delivery of goods, chattels, and Government stocks, and choses in action, are not generally enforceable, damages being a sufficient remedy. There are plenty of other things of the same kind in the market which can readily be bought or sold, so that the actual loss occasioned by the breach of this particular contract is easily ascertainable, and can be made good by damages. There are exceptions, however, to this general rule, for which see "Chattels," under next Section.

2. *When the Contract is such as the Court cannot perform.* As, for example, the sale of a goodwill of a business without the premises. The Court cannot give specific directions as to what is to be done to transfer it. If the contract be for sale of certain premises, and the goodwill attached thereto, it will enforce the contract. But there is a case in the books which shows the Court will not do this where the business is peculiarly of a personal character, as a non-dispensing medical practice.

3. *When the actual performance would be useless.* As a contract for a partnership which does not provide for its duration. This cannot be enforced, for as such a partnership can be dissolved at the will of either party, it would be useless for the Court to order a specific performance of that which could be undone the next minute

4. *When the Court would be unable to enforce its own Judgment.* (1) Apprenticeship. "The Court cannot compel an apprentice to work, nor can it compel the master to instruct." It will not therefore compel parties to enter into an apprenticeship deed.

(2) To build. Nor will it compel performance of a contract to build. If one man will not do the work, another will. The Court is unable to enforce its Judgment in this case.

But if a contract be to take a lease of land, and build a house upon it, the Court will enforce the taking of the lease, but not as to the building.

(3) Hire and service. Contracts for hire and service are not enforceable, but sometimes the Court may *indirectly* enforce such a contract, as where it contains a negative covenant. Thus: a lady engaged herself to a theatrical manager to sing at his theatre, and not to sing elsewhere The Court could not compel her to sing at his theatre, and therefore on that point refused specific performance, but it could compel performance as regards not singing elsewhere, and granted a decree accordingly restraining her from doing so.

5. *Where the Contract is voluntary.* The Court will not enforce a contract which is voluntary. Thus, where a man promises without any consideration to give to another money, shares, or other property, the Court will not enforce the promise. Nor will it give effect to the promise of a man to leave all his property to his wife. The Court will only enforce the execution of contracts which are binding upon the parties; voluntary contracts are not binding.

6. *When the Plaintiff has elected to proceed in some way other than for specific performance.* This needs no illustration, for it is evident that if a plaintiff has two courses open to him, one

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for specific performance, and the other for damages, and he chooses the latter, the Court will not decree performance after his election. He cannot have the thing itself and damages also.

7. *Want of Mutuality.* This means that if one party to the contract cannot be compelled to specifically perform it, the Court will not compel the other to do so. Thus, a contract made with an infant will not be ordered to be performed by the adult party at the instance of the infant on the ground that as the Court cannot compel the infant to perform, there is no reciprocity, and therefore the infant cannot have specific performance against the other party.

8. *Immoral Contracts.* These the Court will never enforce, nor give damages for breach of them.

9. *Misrepresentation—Fraud.* The Court will not enforce a contract which has been entered into by the misrepresentation or fraud of the plaintiff.

10. *Mistake.* Nor will it enforce a contract if it be satisfied that a mistake has been made. If the mistake be the plaintiff's, he will lose his action and have to pay costs. If it be the defendant's mistake, the Court will not enforce the contract against him, but will leave the plaintiff to sue him for damages. But then the mistake must be a pure mistake, and not such a mistake as borders on misrepresentation.

There is a case in the books of a mistake having been made by a person in an auction-room buying a property which he did not intend to buy, owing to his mistaking the lot then put up for sale. He refused to complete, and a suit was brought against him for specific performance. The Court, however, refused to make a decree, saying that the defendant did not intend to buy the property, but as the mistake was his he must be left to his legal liability to damages.

11. *One Property for another.* The Court will not compel a man to take a conveyance of freehold, instead of copyhold, which he had bought; nor an under-lease for an original lease.

12. *Prejudice to Third Parties.* A partial performance of a contract will not be enforced which is prejudicial or unreasonable to third parties who are interested in the property.

13. *Lapse of Time.* Nor, where there has been so great a lapse of time as to amount to laches.

14. *Plaintiff has not "Clean Hands."* Nor where a plaintiff who seeks to compel specific performance has been guilty of misconduct amounting to misrepresentation or fraud.

15. *Great Hardship.* Nor where the contract would work a great hardship. The plaintiff can only recover damages.

16. *Defective Title.* Nor where the plaintiff's title is bad, and the purchaser is resisting specific performance on that ground.

III. IN WHAT CASES SPECIFIC PERFORMANCE WILL BE GRANTED.

1. *General Rule.* The rule which applies in these cases is that originally there was no common law remedy, or that that remedy is inadequate. There are some cases, however, where the Court will decree performance without regard to the question whether the common law could, or could not, give adequate relief.

The following are illustrations of the extent to which the Court will go, and the nature of the cases in which it will order contracts to be specifically performed.

2. *Of Contracts relating to Chattels.* As before stated, the general rule is that the Court will not order performance of a contract for the sale of goods, chattels, choses in action, or Government stock, but there are exceptions to this rule.

(*a*) Unique articles of great beauty or rarity, such as the "Pusey horn," heirlooms, a picture by a well known painter. Such articles as these the Court will order to be delivered over, and will not award any damages, for damages would not be an adequate remedy. As was once said by a learned judge: "The 'Pusey horn,' the patera of the Duke of Somerset, were things of such a character as a jury might (possibly) estimate by their weight, and this would obviously be a very inadequate and unsatisfactory measure of damages. In all cases, therefore, where the object of the suit is not open to compensation by damages, it would be strange if the law of this country did not afford any remedy; and great would be the injustice if an individual cannot have his property without being liable to the estimate of people who cannot value it as he does."

(*b*) Chattels of peculiar importance to the purchaser in his business. As, *e.g.*, a large quantity of timber purchased by a ship carpenter from a neighbouring proprietor for completing a ship then in hand, which was valuable by reason of its vicinity. And also a ship. Both would be of peculiar importance to the purchasers, and adequate compensation in money could not be given.

(*c*) Shares in a railway company. A contract for sale of these would be enforced, for railway shares are limited in number, and not always to be bought, as distinguished from Consols or Reduced Annuities, which, so far as the investing public are concerned, are unlimited in amount and always to be had. Beside which a certain quantity of Government stock cannot be earmarked, but shares in a company can, and are so distinguished by their numbers, and are always transferred by their numbers.

(*d*) Debts. A chose in action is a right to recover money, or other thing, and in former years could not be assigned. It can now, however be assigned, and the assignee, after having given notice of the assignment, can sue in his own name. But, generally speaking, contracts for the assignment of choses in action will not be enforced. There appears, however, to be an exception to this in the case of an assignment of debts proved in Bankruptcy. In such a case the contract is for the assignment of dividends of an uncertain value. The Court will decree specific performance, "because damages at law cannot accurately represent the value of the future dividends, and to compel the purchaser to take such damages would be to compel him to sell those dividends at a conjectural price."

(*e*) There are other cases where the Court will order specific delivery of goods without regard to the question of damages. There are cases where a fiduciary relationship exists between the parties, as where stock, chattels, or cargoes have been entrusted to an agent, trustee, or a broker. Here, if either of these persons intends to abuse his power, the Court will step in, stop a sale, and order re-delivery of the things in question.

3. *Of Contracts relating to Land.* (*a*) Generally. The greater number of cases of specific performance have arisen, and do still arise, out of contracts for the sale and purchase, or the granting of leases of lands and houses. And the beneficial influence of equity has been frequently manifested in such cases.

In the case of goods, or stock, a purchaser, who cannot get delivery of the actual articles bought by him, may go into the market and buy others of the same kind. The damage he may suffer is the having to pay an increased price, which he can recover against the defaulter. But the case of land and houses stands on a totally different footing, and very different considerations apply. A coach may be obtained of Mr. Black quite as good in all respects as one made by Mr. White; but if A. agrees to sell a specific house, or piece of land, to B., and then fail to carry out his contract, B. cannot get another house or another piece of land to answer his purpose, and damages in such a case would not be an adequate remedy. The position, character, soil, and surroundings of the house, or land, may give it a special value to one man (which it would not give to another), and to which might be added some special feature which could not be given by a house or a piece of land at another place, or even "round the corner." These considerations suffice to show that a money compensation is not an adequate remedy for the breach of contract, and therefore the Court will always (within the rules) decree specific performance of the contract.

(*b*) Unwritten contracts. The Statute of Frauds (an Act passed in the time of Charles the Second) provides that no action should be maintained on an agreement relating to lands unless it be in writing, and signed by the party to be charged therewith.

This enactment, which remains in force to the present day, would have worked incalculable mischief but for the interference of the Courts of Equity. As, for example: A. agrees, verbally, to sell certain land to B., and lets him into possession, whereupon B. expends money upon the property to make it suitable for his own requirements, and A. afterwards refuses to convey, and, indeed, threatens to treat him as a trespasser. Now apply the Statute, which says that no action shall be maintained upon a contract relating to land, unless it be in writing, and signed by the party to be charged. If that were the only law applicable to the case, B. would be distinctly defrauded, and the law would facilitate A.'s fraud and protect him while carrying it out.

The much-abused Court of Chancery, however, exercised its power in such cases as this, and not only prevented A. from completing his fraud, but compelled him to perform his contract by conveying the land to B.

Such a case as this comes under the head of part performance, and the rule of equity is to grant specific performance of an unwritten contract which has been partly performed by the party seeking its aid.

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Part Performance. What, then, is part performance? It is the doing of certain acts in part fulfilment of the essence of the contract; such acts as are clearly founded upon the contract, and upon no other ground whatever.

If the acts done can be referred to any other cause, or are done with any other intention, they do not constitute part performance. Thus, the mere possession of the land will not be deemed part performance if possession is independent of the contract, as in the case of a tenant who, while *in possession as tenant*, contracts verbally for the purchase of property: he will not be allowed to set up his possession as part performance, for his possession arose from his character of tenant, and not of purchaser. But if the possession be delivered *after the* contract, *and in pursuance of it*, it will be part performance, on which the Court can act. Introductory matters are not part performance, as delivering an abstract, viewing the estate, registering deeds, appointing a valuer to value stock, and other like acts. These are considered by the Court as introductory matters only, not part performance. The expenses incurred by these acts are sufficiently compensated for by damages. Payment of a part, or of the whole, of the purchase money, is not part performance. The reason for this is that while the Statute expressly provides that payment shall be part performance in the case of goods, it is altogether silent on this point as to land; and the Courts in construing the Statute say that the express provision in the one case, coupled with its absence in the other, clearly indicates that part payment is not, and never was, intended by the Legislature to be part performance of an oral contract relating to land.

Marriage is not part performance. The Statute provides that contracts in consideration of marriage shall be in writing. An agreement made by word of mouth, that if a man marry a daughter, the daughter's father will give to her certain property, is not enforceable unless it be followed by some other act beside the marriage. If the father choose not to fulfil his promise the daughter and her husband cannot enforce it. But if the father deliver over possession of the property, or, which amounts to the same thing, gives notice to the tenants to pay their rents to the daughter, or her husband, there is such part performance as will support an action for complete performance, and the father will be compelled by the Court to make a proper conveyance.

The Court will not compel performance of an oral contract which has been partly performed, if it be such that if put into writing the Court would not entertain it. The want of writing with part performance does not necessarily give the Court jurisdiction. It will only grant specific performance of an oral contract partly performed, where it was one which if put into writing was an enforceable contract.

(*c*) Misrepresentation is a good ground for specific performance; and this holds good not only in reference to marriage, but all other contracts. "If a representation be made for the purpose of influencing the conduct of the other party, and acted on by him, it will be sufficient, although not in writing, to entitle him to the assistance of the Court for the purpose of realising such representation."

If, therefore, upon the marriage of two persons a representation be made by a third party upon the faith of which the marriage takes place, the party making such representation shall be bound to make it good. Lord Thurlow once put this point thus:—"If any man upon a treaty for any contract will make a false representation, by means of which he puts the person bargaining under a mistake upon the terms of the bargain it is a fraud—it misleads the parties contracting on the subject of the contract. . . . The principle upon which all the cases upon this subject have been decided is, that faith in such contracts is so essential to the happiness both of the parents and of the children, that whoever treats them fraudulently on such an occasion shall not only not gain but shall even lose by it."

In such cases as these the plaintiff must base his case on the misrepresentation, for if he attempts to do so on contract he must show a written contract or sufficient part performance.

(*d*) Fraud is another ground for relief. The Court will enforce a parol agreement which has not been put into writing by the fraud of one of the parties, *e.g.*, where an agreement has been put into writing, but another containing different terms should be secretly brought in, and the complaining party should be induced to sign it by the misrepresentation of the other party, the Court will enforce the agreement not signed.

(*e*) *Written Contracts.* Most contracts dealing with land are reduced into writing, and many actions have arisen upon written contracts, but the points raised upon them are not always the same as those raised on unwritten contracts. Sometimes the validity of the contract is disputed; sometimes the title to the property; sometimes the capacity or power of the parties to make the contract.

For information on these points the reader is referred to the recognised text-books on this branch of the law, as the construction of written contracts is not within the scope of this article.

It will be sufficient to say that the principles arising under the heads of misrepresentation, fraud, and mistake, are applicable to written contracts, where they are tainted by these imperfections or wrong-doing, as well as to oral contracts, and that the Court will rectify written contracts where necessary under the two following heads:—

Error. Where an error has occurred in the reduction of the agreement into writing, and there has been no fraud, the Court will enforce the original agreement. As, for instance, when an agreement has been entered into for a lease of land at a ground rent, and the intended lessor insists that it was a term of the agreement that the intended lessee was to pay rates and taxes, the Court will grant relief.

Contracts with Variations.—A purchaser may successfully resist special performance if he can prove by parol evidence that there has been a mistake in the contract. It appears to be now settled that the cases of a plaintiff seeking, and a defendant resisting, specific performance are different. Parol evidence is not admissible in support of the plaintiff, but it is admissible in support of the defence. This is illustrated by two cases which were decided by Lord Eldon. An owner of land had entered into a written agreement to grant a lease. Afterwards a dispute arose as to the quantity of land to be included in the lease. The landlord filed a Bill for special performance of the agreement with a variation as to the quantity of land. The lessee filed a cross Bill for special performance of the same agreement without the variation. The landlord, as plaintiff in his own suit, supported his claim for a variation by parol evidence, showing a mistake in making out the contract. Lord Eldon decided against the landlord on the ground that the parol evidence was not admissible for the purpose of varying or altering a written contract, and he dismissed the Bill. In the other suit, in which the landlord was defendant, he put in the same parol evidence to prove a mistake in the contract. In this case the landlord's position was reversed: he was in the second suit resisting specific performance on the ground of mistake, and by his evidence he satisfied Lord Eldon that a mistake had occurred, and the Chancellor decided in favour of the landlord, and dismissed that Bill on the ground that the parol evidence of mistake was admissible, it being put in in support of the defence. He therefore refused to direct specific performance by the landlord in favour of the lessee, as he had refused in the first suit to direct specific performance by the lessee in favour of the landlord. Neither party succeeded as plaintiff, but both succeeded as defendant.

IV. Procedure.

An action for specific performance is commenced in the same way as other actions are commenced. If in the County Court, it will be by plaint, with particulars setting forth the grounds of complaint. If in the High Court a short statement is endorsed on the writ to the effect that the plaintiff's claim is for specific performance of an agreement dated, &c., for, &c. This is generally followed by a statement of claim (similar to the "particulars" in the County Court action), although in theory, and sometimes in fact, it may not be necessary, setting out the facts of the plaintiff's case and the grounds on which he desires relief.

The defendant is then obliged to deliver his statement of defence in the High Court (but not in the County Court), in which he raises all his objections, and on this the case goes to trial; subject, of course, to various interlocutory applications which it may be necessary to make. If the defendant succeeds at the trial in sustaining his defence, the plaintiff's action will be dismissed.

If, on the other hand, the plaintiff succeeds, the course to be followed will be determined by whether or not the defendant disputes the title, and if he disputes it, whether or not before the trial the title has been enquired into by the judge's chief clerk.

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If the defendant admits the validity of the contract but denies the title, and that is his principal ground of defence, either he, or the plaintiff, may before trial issue a summons for an enquiry into the title with a view of saving expense. If there has been such preliminary enquiry, and the judge's chief clerk certifies the title to be good, the judgment on the trial would declare that the plaintiff is entitled to specific performance, and direct (1) that interest on the purchase money be computed; (2) that an account of the rents and profits received by the plaintiff up to the hearing be taken; (3) taxation of plaintiff's costs, (4) that what is due for rents and profits be deducted from the purchase money, interest, and costs; and (5) that on the plaintiff executing a proper conveyance (to be settled by the judge if the parties differ) at the expense of the defendant, and on plaintiff delivering up all deeds, &c., the defendant pay the balance to the plaintiff

The judgment may also provide that if the defendant do not pay the balance the estate shall be sold, and the deficiency paid by the purchaser.

If, on the other hand, the title has not been enquired into before the trial, the judge will simply declare that the agreement should be specifically performed if the title be good, and direct an enquiry into title, with a further enquiry as to when a good title was first shown, and then reserve the further consideration of the action till such enquiry shall be completed.

If the judge's chief clerk certifies that the title is not good, the action will be dismissed with costs, and the deposit ordered to be repaid to the defendant. If, on the other hand, the title be found to be good, the judgment on further consideration will follow somewhat the form of the judgment first mentioned.

If the action be for specific performance of an agreement other than for the sale or demising of land, the judgment will take a different form, in accordance with the nature of the case, and the finding of the Court.

STAIRCASES AND CORRIDORS

(Building Act, 1855.)

In every public building and every other building containing more than 125,000 cubic feet, and used as a dwelling house for separate families, the floors of the lobbies, corridors, passages and landings and also flights of stairs shall be of stone or other fire-proof material and carried on fireproof supports.

STONE

Stones built into walls should be laid on their natural beds. In cornices and projecting mouldings the bed should be vertical and at right angles to the face of the wall In arches the bed should be at right angles to the thrust of the arch.

A stone on its natural bed will bear a greater weight than with its bed placed vertically.

Tests.—Stone newly fractured should present a bright clean appearance, with grains well cemented together. A rough test to prove whether a stone is likely to stand in the smoky atmosphere of towns is to soak it for a few days in dilute solution, containing one per cent. of sulphuric acid and hydro chloric acid.

Mr. C. H. Smith's test to find earthy matter in stone:—"Break off a few chippings about the size of a shilling with a chisel and a smart blow from a hammer, put them in a glass about one third full of clean water, let them remain undisturbed at least half-an-hour. The water and specimens together should then be agitated by giving the glass a circular motion with the hand. If the stone be highly crystalline, and the particles well cemented together, the water will remain clear and transparent, but if the specimens contain uncrystallised earthy powder the water will present a turbid or milky appearance, in proportion to the quantity of loose matter contained in the stone. The stone should be damp, almost wet, when the fragments are chipped off."

HOPTON WOOD STONE

The Hopton Wood Stone is durable, compact, and of excellent colour. It is suitable for dressings, pavings, chimney pieces, fenders, &c. The stone from Messrs. Killer Brothers' quarries has been used in important public works, including the New Law Courts, the Houses of Parliament, &c., &c.

MANSFIELD STONE.

Mansfield Stone is a very useful and durable free stone, obtained of red, white, and yellow colours, the red being the most largely used, it giving a pleasing variety of tint, in contrast with other building stones. Messrs Fisher Brothers have supplied the stone from their Mansfield quarries, for a large number of buildings in England, Ireland, and Wales, including the St Pancras Midland Hotel, the Viaduct at Hastings, Railway Station at Southsea, &c., &c.

ARTIFICIAL STONE.

There have been several artificial stones invented which compare favourably with the best natural building stones in the market, and large quantities of artificial stones have, within the last few years, been used in many important buildings, and as pavings in some of the principal thoroughfares of the Metropolis, and other large towns.

IMPERISHABLE CONCRETE MASONRY.

One of the most useful artificial stones in the market is that manufactured by Messrs. Frambrim & Daniels, of Lincoln, and called by them Imperishable Concrete Stone. It is capable of being made in any variety of ingrain colour, with a surface and body as hard as the hardest granite. It has stood many severe tests of frost and climatic changes without any sign of decay or deterioration. It is capable of being moulded into any variety of form and ornament as freely as natural stone can be carved or worked. Thus the most delicate relief ornament can be reproduced in it. Its cost is much less than for ordinary stone, which should lead to its being brought into extensive use. Particulars of the stone will be found in the COMPLETE CATALOGUE portion of this work.

STUART'S GRANOLITHIC STONE.

This stone is manufactured for paving, floorings, steps, &c. It is of an extremely hard and wear-resisting nature, and has been used for upwards of 700 miles of paving in Great Britain and abroad, besides for other purposes where a material of great hardness is required. It has received the highest awards at home and foreign exhibitions.

VICTORIA STONE.

This stone is manufactured in the following manner

Groby granite is raised from the quarry, broken up and crushed by machinery till sufficiently small to pass through a perforated gauge or sieve The finely broken granite is then washed by a machine, which cleanses it thoroughly, and removes earthy particles, it is mixed with a defined quantity of Portland cement, of well-burnt clinker (ground fine), and placed in metal-lined moulds. In a few days the slab has "set" into a hard concrete, and is completed by being immersed for about ten days in silica, or flint dissolved in caustic soda

The stone has been tested as paving stone in some of the busiest thoroughfares in the Metropolis for the last twenty years, and is laid on London Bridge.

WRIGHT'S STONITE ROCK.

This is an improved and specially prepared concrete made to resemble natural building stone in colour and texture, but like granite for durability and wear; made to any detail at about half the cost of stone or terra cotta; perfect in outline, and particularly adapted for external cornices (enriched or otherwise), coves, mouldings, quoins, chimney and window heads, also for cills, columns, caps and bases, plinths, copings, &c.; also adapted for chimney pieces, hearths and fenders. (See advertisement in the COMPLETE CATALOGUE.)

(For weights of Stone see "Weights of Materials.")

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STREETS.

LAYING OUT NEW STREETS.

(Metropolis Management and Building Acts Amendment, 1882, and Bye-Laws.)

Roads laid out for carriage traffic must be at least forty feet in width, and for foot traffic twenty feet in width. The measurement of such width to be taken half on either side from the centre or crown of the road to the external or boundary wall of buildings or forecourts

Persons desiring to lay out a street which would not have direct communication between two streets, must apply for permission of the County Council three months before the street is begun to be made, and the County Council may at any time within the three months decline to sanction the formation of such street, or give consent subject to such conditions as they may think fit to prescribe. If the person interested considers the conditions prescribed by the Council are unreasonable, he may appeal to the police magistrate for the district in which the street is situate, whose decision will be final.

Written notice must be given to the County Council at least four weeks before any new street shall be laid out, stating the proposed level and width, and accompanied by a plan showing the local situation of the same.

The carriage-way of every new street must curve or fall from the crown at the rate of three-eighths of an inch, at least, for every foot of breadth The kerb of footpath must not be less than four inches or more than eight inches above the channel of the road way, and the slope of the footpath towards the kerb must be half-an-inch to every foot of width, if the footpath be unpaved, or not less than a quarter of an inch if the footpath be paved.

TERRA COTTA.

Natural terra cotta clay contains 60 to 65 parts of silica to about 28 parts of alumina. Terra cotta shrinks 1-8th to 1 12th in burning. It should be free from fire cracks, have lines true, its surfaces not chipped or rubbed after burning, and each piece should be properly chambered with cross pieces. Blocks should average 1 to 3 feet cube, never more than 4 feet, usually 12 in. to 16 in. long, 6 in. to 15 in. high, 4½ in. to 9 in. on bed, if hollow 1 in. to 2 in. thick. Large blocks should have a division of terra cotta across them; blocks required to bear weight should be filled with lime concrete or Roman cement (not Portland cement, which has a tendency to swell and burst the blocks). Joints should be joggled, stopped ends solid, beds even, and samples should show extreme limit of colour and evenness.

Although in a fragmentary and partial way, Terra Cotta has been produced in this country for many years past, yet it has occupied until very recent years a secondary position as an Architectural material. As a result of the encouragement and skill devoted to its application by several leading Architects and notably by Mr Alfred Waterhouse, R.A., its capacities have become better understood, and since the erection of the Natural History Museum at South Kensington, it became obvious that under favourable conditions of manufacture a great future was in store for it.

Although Terra Cotta has suffered much, both in its manufacture and its application at the hands of the unskilful, yet it has gradually made its way to the front as an Architectural material, capable of the highest artistic expression. Its production was commenced as a speciality by the Burmantofts Works seven years ago, and they now produce it in several tones of buff or tan, tawny, or slightly red tan, and in a mellow red (corresponding to tone of Dumfries or Red Mansfield Stone), all of which are products of different combinations of local clay.

The manufacture has been carefully developed, and with the assistance of a large plant, and the experienced skill of specialists trained to the various manipulative processes, the highest class of Architectural work is turned out, having the highest qualities of artistic expression or technique.

Excellent productions in this material are made by many firms of well known standing, such as J. Cliff & Sons, Craven, Dunnill & Co., J. C. Edwards, Gibbs & Canning, J. Stiff & Sons, &c., whose artistic designs and superior workmanship are of the highest description.

TILES

There are two chief classes of tiles used in buildings, viz., Common Tiles, made of a variety of shapes for roofing, paving, and other purposes; and Encaustic Tiles, used for decoration.

COMMON TILES.

Common Tiles are made of strong clay, "weathered either by exposure to frost or sun, allowed to mellow in pits, tempered, pugged, cleared from stones, moulded, trimmed with a knife, thwacked (that is, beaten when half dry with a wooden bat to correct warping), and burned in a domed kiln."

Amongst the best tiles of this description are those made from the Broseley Clay, and known in the market by the name of Broseley Tiles, the colour of which varies from pale strawberry red to dark brindle (a deep reddish brown), or even to blue, through an almost infinite gradation of colour, so that almost any colour can be obtained.

Old Broseley Tiles used on buildings two centuries and more ago, are as good and sound as when first laid, they get their weathering quickly and are non-porous.

PLAIN TILES.

Plain Tiles are 10½ inch × 6½ inch × ½ inch, and weigh about 2½ lbs each; and 11 inch × 7 inch × ⅝ inch, and weigh about 3 lbs. each. Pantiles are 13½ inch × 9½ inch × ½ inch, and weigh about [illegible] lbs. each.

Per square foot of roofing requires 800 plain tiles laid to a 3 inch gauge, 700 tiles laid to a 3½ inch gauge, and 600 tiles laid to a 4 inch gauge, and 180 pan-tiles laid to a 10 inch gauge, 164 pan-tiles laid to a 11 inch gauge, and 150 pan-tiles laid to a 12 inch gauge.

One square of plain tiles weighs about 15 cwt.; and one square of pan tiles about 8 cwt.

Per [illegible] tiles are [illegible] inch, and oak tiling laths 1½ inch × [illegible]

[illegible] laths [illegible] feet long 1 bundle.

12 pan tile laths [illegible] feet long 1 bundle.

One square of tiling requires 1 bundle of laths; 1½ hundred of nails; one peck of tile-pins; and 3 hods of mortar.

One square of pan tiling requires 1 bundle of laths and 1¼ hundred of nails

ENCAUSTIC TILES

We are in possession of comparatively little information touching the discovery of the process by which enamelled tiles were first manufactured. According to the most reliable investigations, it appears probable that the art originated in Arabia, whence it was carried into Spain through the agency of the Moors. From Spain the manufacture passed naturally into Italy, a country in which the art of making pottery had arrived even in early Etruscan days, at great perfection During mediæval times tiles were extensively used as a means of decoration, more especially, as might have been expected, in Eastern countries, where the mosques and domes were beautifully ornamented in a style that we still find it difficult to match, and almost impossible to excel. The first English fine earthenware factory has been variously placed at Stratford-le-Bow and Norwich, while the same manufacture was carried on at a very early date at Fulham. But it was not until 1830 that the process of manufacturing encaustic tiles, which had been forgotten in the lapse of centuries, was re-discovered by a Shelton potter, Samuel Wright by name, who sold the patent to Messrs. St. John, Geo. Barr, and the celebrated Herbert Minton, and it was by the purchase of the business carried on by these gentlemen that Messrs. Maw & Co. began their manufacturing operations

Great strides have been made in the manufacture of tiles in the last few years For instance, those so beautifully modelled in relief, and glazed in one enamel, which lies thick in the low parts, giving a rich deep tone, while on the higher parts it runs off into numerous mezzotints, which are all obtained by a skilful artist in the modelling. Splendid effects are obtained by

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this method, both, in figures flowers, and ornaments. These tiles may also have different coloured clays inlaid in the face of them, and when glazed in one enamel the different clays give distinct colours to the enamel. Specimens of these lovely tiles are shown on the plate by Messrs. Craven, Dunnill & Co. in the COMPLETE CATALOGUE

Take, again, the Barbotine Painted Tiles, both flowers and landscapes. These are painted in coloured clays, and have the fulness and richness of some of the best oil paintings. These are suitable for decorative purposes only, such as splays, hearths, furniture, &c.

CLEANING TILES, STONEWARE, &c.

Stains or dirt adhering to Tiles, Stoneware, &c., may be removed by dilute Muriatic Acid ("Spirits of Salts"), care being taken that the acid is all wiped off, and, after washing, the superfluous moisture should be *wiped off* with a clean *dry* cloth.

TIMBER.

European deals are from 10 to 22 feet in length, and from 8 inches to 10 inches in breadth American deals, from 10 to 13 feet in length and from 9 to 11 inches in breadth Slab deals are cut from the outsides of timber Spruce deals are thin deals cut from the white fir trees of Norway Yellow deals are generally of a bright yellow colour, and have not lost their resin. In selecting them, the brightest should be chosen, and where the strong red grain apparently rises to the surface. Yellow deals are the strongest, but they are also the dearest. White fir, known in the English market as "white deal," is seldom imported into this country in logs, but mostly in deals and battens, 2 to 3 inches thick, and 5 to 9 inches wide, and are usually cut into lengths of about 12 feet It unites well with glue, takes stain well, and is capable of taking a high polish For floors and panels Christiana white deal is considered best

Scantlings 11 inches to 12 inches wide × 3 inches thick are called planks; 9 inches wide × 3 inches thick are called deals, 2 inches to 7 inches wide × 2 inches thick are called battens; 4½ inches wide × 3 inches thick are called battens. Woods do not alter materially in their length, but in width they contract, warp, and twist. Timber is permanently injured if more than one fourth the breaking weight is placed upon it.

BEST TIMBERS FOR VARIOUS USES

General Construction Oak, chestnut, teak, cedar, fir, elm, walnut, larch pine, beech, mahogany, poplar, acacia, spruce fir (scaffolding, ladders, &c.).

Great Strength in Construction.—Teak, oak, greenheart, Dantzic fir, pitch pine.

Timbers durable in Wet.—Oak, alder, teak, acacia, elm, white cedar, larch, iron bark, beech, northern pine, plane, plane North American).

Timbers durable in Dry Places.—Oak, chestnut, olive, mahogany, larch, willow, birch, fir, deal, cedar, pines, maple, ash, plane, poplar, teak, walnut, cedar, sycamore, acacia.

Floors.—Christiana, St. Petersburg, Onego, Archangel, and pitch pine oak and teak for great wear.

Piles. Oak, beech, elm.

Posts Chestnut, acacia, larch.

Window Cills, Sleepers. Oak.

For Patterns.—Deal, alder, pine, mahogany.

Hardest English Woods. Box, oak, elm, walnut, beech.

SEASONING TIMBER.

Natural Seasoning is effected by stacking the timber in such a manner that air may freely circulate around each piece, and through the stack, the timber being frequently turned to ensure equal drying. The stack is raised from the ground level on bearers, and it is covered by a roof, to protect it from sun, rain, high winds, &c. The ground under the stack should be paved or covered with ashes, to keep it free from vegetation.

The time during which timber should be stacked depends on the size and kind of timber

Mr. Leslett gives the following time, as required for seasoning oak and fir of different scantlings.

Oak, from 4 to 8 square inches, about six months, under 12 square inches, 10 months; under 16 square inches, 14 months, under 20 square inches, 18 months; under 24 square inches, 22 months; above 24 square inches, 26 months.

Fir, from 4 to 8 square inches, 3 months; under 12 square inches, 5 months; under 16 square inches, 7 months; under 20 square inches, 9 months; under 24 square inches, 11 months; above 24 square inches, 13 months.

Water Seasoning is effected by entirely immersing the timber in water by chaining it down, the sap is washed nearly out, and the timber is afterwards dried in the air. Care must be taken that every part of the timber is under water, as partial immersion may start decay along the water-line. Water-seasoned timber is less liable to warp and crack than other timber, but it is more brittle, and has less strength and elasticity

Boiling and Steaming are quick processes of seasoning timber, but they are expensive and reduce the strength and elasticity.

Hot Air.—In this process the sap in the timber is dried up by placing it in an oven exposed to a current of hot air. There is a great tendency of the timber splitting if the heat be too great; the ends should therefore be clamped. It also loses its strength and lustre. It is only suited for timber of small scantling

M'Neile's Process is one in which the timber is exposed to a moderate moist heat charged with carbonic acid and other gases, the product of the combustion of fuel. In this process no injurious effects appear to take place on the timber, and it is used by many leading firms.

Even seasoned timber will shrink after being re-cut or planed, and requires a *second seasoning*. Framing, floor boards, &c., should therefore be stacked for further seasoning before being wedged up or laid.

STRENGTH OF DIFFERENT WOODS.

(Crushing Strength per Square Inch in Tons.)

Beech, 3·45; Red Deal, 2·56; White Deal, 3·03; Elm (dry), [illegible] Mahogany, 3·[illegible], English Oak (dry [illegible]19; Dantzic Oak (dry), 3·[illegible], Pine, 2·[illegible].

SAFE LOAD IN TONS UPON PILLARS OF DANTZIC OAK.

1-10th the breaking weight.

Diam in ins.	Length of Pillars in ft. 8	10	12	14	16	18
4	[illegible]	[illegible]	[illegible]	1·4	[illegible]	[illegible]
4½	[illegible]	4·5	1	2·3	[illegible]	[illegible]
5	[illegible]	5·0	[illegible]	3·5	3·7	2·1
5½	[illegible]	[illegible]	[illegible]	5·1	[illegible]	[illegible]
6	[illegible]	[illegible]	7·8	[illegible]		[illegible]
6½	10·8		[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	10·1	[illegible]	[illegible]	8·1
8	[illegible]	[illegible]	15·0	14·5	[illegible]	13·0
9	[illegible]	[illegible]	[illegible]	18·0	17·0	[illegible]
10	30·0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

MEASURES OF TIMBER.

100	superficial feet of planking.. ..	equal 1 square.
120	deals	,, 1 hundred.
50	cubic feet of squared timber	,, 1 load.
40	feet of unhewn timber	,, 1 load
600	superficial feet of inch planking ..	1 load.
Boards 7	inches wide	,, battens.
,, 9	,, ...	,, deals.
12	,, ...	,, planks.

(*Weights of Timbers, see Weights of Materials.*)

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REGULATIONS OF METROPOLITAN BUILDING ACT APPLYING TO TIMBER.

Loophole frames may be fixed within one inch and a half of the face of any external wall; but all other woodwork fixed in an external wall, except bressummers and story posts under the same, and frames of doors and windows of shops on the ground story of any building, must be set back four inches at the least from the external face of such wall.

Every bressummer must have a bearing in the direction of its length of four inches at the least at each end, upon a sufficient pier of brick or stone, or upon a timber or iron story post fixed on a solid foundation, in addition to its bearing upon any party wall; and the ends of such bressummer may not be placed nearer to the centre line of the party walls than four and a half inches. No bond timber or wood plate may be built into any party wall, and the ends of any beam or joist bearing on such walls must be at the least four and a half inches distant from the centre line of the party walls. Every bressummer bearing upon any party wall must be borne by a templet or corbel of stone or iron tailed through at least half the thickness of such wall, and of the full breadth of the bressummer.

VENDORS AND PURCHASERS

I. *Title.*
Length of.
Bad.
II. *Preparing for Sale.*
By Auction.
By Private Contract.
III. *The Auction.*
Biddings.
Deposit Money.
IV. *The Contract.*
Written.
Oral.
V. *Unreasonable or inadequate price.*
VI. *Misrepresentation or Misdescription.*
VII. *Fraud or Concealment.*
VIII. *Mistake.*
IX. *Duty of Vendor under Contract.*
X. *Liability of Purchaser under Contract*
XI. *Specific Performance of Contract.*
Of Contract as signed.
Of Contract with Variations.
XII. *Death of Parties to Contract.*
XIII. *Incumbrances, Bankruptcy, &c.*
Incumbrances,
Bankruptcy.
Assignments for benefit of Creditors.
Land Charges.

The term Vendor means a person who sells, and the term Purchaser means a person who buys. Anything may be the subject of a sale and purchase, whether goods, ships, stocks, houses, or lands. The main principles of the law relating to buying and selling, so far as the contracts are concerned, are the same in the case of every purchase and sale, whatever its subject may be; but many variations occur to meet the varieties of the subject of contracts and the requirements of the mercantile world. When the term "Vendors and Purchasers" is used by Lawyers, it is limited to the selling and buying of land and houses, and with that limited meaning, it is in common use.

It will be so used in this article.

I. TITLE

Length of Title. In the absence of a special provision to the contrary, a vendor of house or land of freehold or copyhold tenure is bound to show a 40 years' title, *i.e.*, a title beginning 40 years before the sale. A purchase deed, or a marriage settlement, is a good instrument with which to commence the title, or "root of title," as it is termed.

A will is not generally a good "root of title," as it involves the necessity of showing by previous leases, declarations, parish books, or other documents, that the deceased was not only possessed of, but absolutely entitled to, the property devised by him. Generally speaking, a deed which depends upon some previous deed or act for its validity, is not a good root of title, *e.g.*, a disentailing deed, *i.e.*, a deed by which the entail in any property has been "barred" or "cut off." It should be preceded by the deed which created the entail.

A title to copyhold is not sufficiently shown by the "admission," it should be preceded by the "surrender," on which the admission was founded. The length of a title always requires consideration, and sometimes more than ordinary care, as it is possible for a vendor to be placed in great difficulty, and put to great expense, in satisfying the requirements of a purchaser which have been unprovided for by the contract. For this reason it is always unwise for an owner to enter into a contract for sale without professional assistance.

Most purchasers are satisfied with a much shorter title, and it is now the usual practice to reduce the length of title by the contract to, where possible, a much shorter term than 40 years.

The title to a leasehold must commence with the lease, but if the lease is more than 40 years old, it is generally sufficient to produce the lease, and a 40 years' holding under it; thus, if the lease be 60 or 70 years old, it will be generally enough to produce the lease, and sufficient deeds to show how and by whom it has been held for 40 years prior to the sale.

Bad Title. If a vendor knows that his title is bad, either to the whole, or to a material part of the property, and conceals the fact from the purchaser, the contract can be set aside.

If a vendor fraudulently induces a purchaser to accept his title and take a conveyance, he can afterwards be compelled to refund the purchase-money, and to pay costs as the penalty of his folly.

II. PREPARING FOR SALE.

By Auction. For a sale by Auction there must be "Particulars" of the property, and "Conditions" on which the Vendor sells. These are annexed to each other, and, when a Memorandum at the end has been signed, the whole constitute a contract.

The particulars should disclose all easements or rights of third parties, such as a right of way or water, or, if the property be land in a country district, "rights of sporting" or "rights of common," and everything else which may affect the value of the property.

The correct acreage should be stated; if the property to be sold is a house, a proper description of the house, the number of rooms, and conveniences, should be given.

Tithe and Land Tax should be seen to, so that if the property be liable to both, or either, a contrary statement should not be made on the particulars.

By Private Contract. Much of the work of providing for a sale by public auction is required for a sale by private contract, but not all. Particulars are dispensed with, as the intended purchaser generally obtains some information about the property before entering into a contract. But the property must be properly described in the contract. The Conditions of the Sale are also set out, and if sold free of Tithe or Land Tax a statement to that effect is inserted. These matters require the same attention as on a public sale.

When the parties have come to a conclusion as to their intentions the vendor's solicitor prepares a draft contract and sends it to the purchaser, or his solicitor, for approval. When approved and finally settled, each party makes an engrossment, signs it, and delivers it over to the other side, the deposit, if any, being paid at the time.

III. THE AUCTION.

Biddings. A vendor cannot bid, nor employ an agent to bid for him, unless he reserves to himself the right to do so. He must state on his particulars one of three things: either that the sale is without reserve, or that there is a reserve, or that he reserves the right to bid.

Biddings are no more than offers, and may be retracted before the hammer is down, and before acceptance. The retractation must be sufficiently loud for the auctioneer to hear it. If a bidder does not retract his bidding before its acceptance, and refuses to sign the contract, he makes himself liable to an action for injuring the sale where the sale is one of land. Where property is stated to be sold without reserve, and the vendor bids, or employs one to bid for him, the sale is void, as against the purchaser, if he chooses to throw up the contract.

Deposit Money. The auctioneer, solicitor, or other person named in the conditions receiving a deposit on a sale stands in the position of stakeholder, and must not, at his peril, part with it until the sale is completed. The usual practice is for the purchaser, on completion, to give him an authority to pay the deposit to the vendors. If the stakeholder pay over the deposit to the vendor without the purchaser's authority, and the sale is not completed by reason of defect in the title, he is liable to pay the amount to the purchaser, who may sue him for it.

The purchaser cannot recover interest upon the deposit, even though the stakeholder may have made interest upon it, but it is otherwise if the deposit be paid under the contract to the vendor himself. In this case interest may be claimed.

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IV. THE CONTRACT.

Written Contract. The contract must be in writing, and signed by the party to be charged, or by his agent, or it cannot be enforced.

The contract should be in duplicate, each part signed by one of the parties and then exchanged. In this way the vendor holds the purchaser's signature, and *vice versa*. If litigation ensues the vendor can proceed against the purchaser, because he holds a contract signed by the party (the purchaser) to be charged by him, the vendor; and, in like manner, the purchaser may proceed against the vendor, because he holds a contract signed by the party (the vendor), to be charged by him, the purchaser. Neither party should sign a contract without having the other's signature to a duplicate.

The contract should contain the names of the parties, a proper description of the property sold, the price, time and place of completion, length of title, with subsidiary provisions for payment of interest after date of completion, if the sale be not completed on the day appointed, forfeiture of deposit on the failure of the purchaser to complete, and power for the vendor to rescind, together with any special conditions which may be necessary and applicable to the matter in hand.

Oral Contract. A contract for sale of land or houses may be made by word of mouth, but unless there has been a part performance of such contract it cannot be enforced. For instance, the vendor may deliver possession, or the purchaser may expend money in improving the property with the vendor's knowledge. In these cases the court will enforce the contract, but it will not do so if a mere deposit has been paid; that is not part performance.

V. UNREASONABLE OR INADEQUATE PRICE.

A purchaser should be careful when negotiating for the purchase of a property not to mislead the vendor in any way. If he knows a fact which would materially affect the value to the vendor, the latter being ignorant of it, he should disclose it, such as the illness of a tenant for life, whose immediate death might considerably enhance the value. On the other hand, a purchaser is not bound to disclose a *latent* advantage with which he may be acquainted, and of which the vendor may be ignorant, such as the existence of minerals below the surface.

There is a case in the books where some land was agreed to be sold at a half-penny per square yard, and before calculation was made the purchaser persuaded the vendor to sign the contract. At the agreed price it came to £500, but on a subsequent calculation it turned out to be worth £2,000. The contract there was set aside on the ground that the purchaser had acted improperly.

VI. MISREPRESENTATION OR MISDESCRIPTION.

All properly drawn conditions, or contracts, contain a clause that errors and mis statements shall not annul the sale. But if the particulars or description be grossly erroneous or misleading, or contain a gross misrepresentation, or misdescription, the contract may be set aside at the purchaser's suit, and he may recover his deposit. If, on the other hand, the vendor sought to obtain specific performance of the contract he would fail if these were proved.

VII. FRAUD OR CONCEALMENT BY VENDOR.

If the vendor induce another person to enter into a contract by fraud, misrepresentation, or by concealment of a defect either in the title or the property, the Court will set aside the contract.

A vendor once agreed to sell a house, knowing there was a defect in the main walls, which he not only did not disclose, but plastered over and covered up with paper. This was held to be a direct fraud, and the contract was set aside.

VIII. MISTAKE.

A mistake will not always vitiate a contract or a conveyance which has followed it. It may, however, sometimes do so. If, for instance, a mistake be made by a vendor, and the purchaser fosters it so as to get the property on more favourable terms, or if more is conveyed than both parties intended; then the Court will correct the mistake. Generally speaking, however, if a vendor has made a mistake he cannot get it corrected afterwards. He should have been more careful.

IX. DUTY OF VENDOR UNDER CONTRACT.

The vendor is bound to proceed immediately after the signing of the contract to furnish the purchaser with an abstract of his title—to produce deeds in his possession or under his control—to ascertain where other deeds may be seen, to give all proper information as to births, deaths, &c., and other matters which arise on the title, for the satisfaction of the purchaser, and to commit no unreasonable delay in carrying the business to completion.

X. LIABILITY OF PURCHASERS UNDER CONTRACT.

The purchaser is bound to pay the purchase money—assuming that the title is good whatever may happen to the property after the contract has been signed. If the property bought be a house the purchaser should at once insure it, or arrange with the vendor to take over the benefit of the policy. This is needful, for if the house be destroyed or damaged by fire, the purchaser must bear the loss, and possibly lose the benefit of the vendors' insurance. That individual may follow an example already set by one man, who, when his purchaser applied for the policy money on the ground that the house had been burnt down after contract, but before conveyance, said, "No; you bought the house, but not the policy of assurance," and whose contention, when sued by the purchaser, was upheld by the Court. Purchasers, therefore, should be careful as to this.

Again, they should push forward the completion, so that they may not have to pay interest on the balance of the purchase money.

This is always part of the bargain if the purchase is not completed on the day fixed. Each party should be prompt and diligent, for if one is diligent and the other not, the consequences of delay may be thrown upon the defaulter.

XI. SPECIFIC PERFORMANCE OF A SIGNED CONTRACT.

If either party fails to complete a contract, and the title is good, the other party may, if he has not been guilty of fraud or misrepresentation, have the contract enforced by the Court, in an action for "specific performance." This is the only mode of getting a contract fully completed when one party fails to carry it out. If the contract contains a power for the vendor to rescind, he may avoid legal proceedings if he acts upon the power so reserved, provided, of course, he does so properly; or he may, if the contract provides for it, declare that the deposit is forfeited, and proceed to another sale, and sue the first purchaser for any deficiency arising on the second sale. But, generally speaking, an action for specific performance is the most usual course adopted by a vendor. If the vendor fails to complete, and the purchaser has done nothing to forfeit his right, he may have specific performance; or, if he chooses, he may sue for return of the deposit.

Neither party can obtain a decree for specific performance if his own conduct has not been free from fraud, or misrepresentation, for it is a maxim of equity that "he that seeks equity must do equity," and another, "he that comes into equity must come with clean hands."

Of a Contract with Variations. A vendor cannot get special performance of a contract with some variation in its terms, supported by parol evidence, except in one case, viz., where the variation is in favour of the purchaser. The Court will not allow a contract to be altered, or varied, as against a purchaser, by parol evidence that by some mistake something was omitted from the contract.

XII. DEATH OF PARTIES TO CONTRACT.

The death of either party to the contract after signature will not affect the destination of either the property or the purchase money. By the contract a "conversion" has taken place; the land sold has in equity been converted into money, and the purchase money while still in the hands of the purchaser has been converted into real estate. The result is this that if the vendor die before completion his executors are entitled to the money as part of his personal estate, and if the purchaser die his executors must pay the purchase money out of his personal estate; but the property, if freehold or copyhold, goes to the purchaser's heir-at-law or devisee under his will, and if leasehold it forms part of his personal estate.

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Purchasers, therefore, who are buying freehold or copyhold, and desire that it should not go to their heir-at-law, should see to it that their will, if they have made one, will operate on the property as they wish, and if not to alter it, or make one at once.

XIII. INCUMBRANCES, BANKRUPTCY, ETC.

Incumbrances. These consist of judgments recovered in actions, *lis pendens, i.e.*, existing actions, Crown debts, *i.e.*, debts due or obligations entered into with the Crown, and annuities charged upon the property bought. All these must be registered in the proper office at the Law Courts to affect a man's property, and this is constantly done, so that a person against whom these are registered may not sell his property too easily. County Court judgments for £10 and upwards are also registered in the County Court Registry in Queen Victoria Street. A purchaser should search these registers before he completes his purchase to see that there is nothing entered against his vendor. If he finds anything, he should not complete until it has been discharged.

It should be added, however, that judgments of the High Court entered up after the 29th July, 1864, will not affect purchasers, unless a writ of execution has been issued, and registered, the land actually delivered in execution, and the Sheriff has made his return previously to the completion of the purchase.

Bankruptcy. A purchaser should also search the records of the Bankruptcy Court to see if his vendor is, or has been, a bankrupt, and if he has been, that he obtained his discharge before he acquired the property which he agreed to sell.

Assignments for benefit of Creditors. A purchaser should also search the register of these deeds both at the Bill of Sale Office in the Law Courts, and in the Land Registry in Staple Inn, Holborn, that he may satisfy himself that the vendor has not parted with his property by any such deed.

Land Charges. This register, kept in the Land Registry, should also be searched to see if the vendor has made any charge on his property which comes under the Land Charges Registration and Searches Act, 1888. If he has, the sale should not be completed till it be discharged.

VENTILATION

A satisfactory system of ventilation must remove air charged with an excess of carbonic acid, and containing impurities of respiration and combustion, without inconvenience from draughts, at the same time maintaining an even and agreeable temperature.

A certain amount of ventilation takes place through doors, windows, fire-places, and through brick walls.

Vitiated air should be extracted at the highest possible point. In a large room or building it is advisable to extract the air through several openings, uniformly distributed. Fresh air should be admitted with an upward direction, above the level of the head, and be warmed in winter if possible. It should also be introduced at many points in the building at a low velocity, and with inlet tubes at least half as large again as exhaust tubes.

Each person requires at least from 3 to 5 cubic feet of air per minute. At Finsbury Technical College about 11 cubic feet of air per minute is provided in the class rooms, and 50 cubic feet per minute in the chemical laboratories and draught closets.

Rule to find area of ventilating tubes in feet.—Multiply the number of people in the room by 4, and divide this product by 43 times the square root of the height of the tubes in feet.—*Tredgold.*

Table by Mr. Hood, showing cubic feet of air discharged per minute through a ventilator with an area of one square foot

Height of Ventilator in Feet	Difference between Temperature in Room and External Air.					
	5°	10°	15°	20°	25°	30°
10	116	164	200	235	260	284
15	142	202	245	284	318	324
20	164	232	285	330	368	404
25	184	260	318	368	410	450
30	201	284	347	403	450	493
35	218	306	376	436	486	531
40	233	329	403	465	518	570
45	248	348	427	493	551	605
50	260	367	450	518	579	635

If the openings for the admission of fresh air be smaller than those for the escape of the heated air there will probably be a descending current of cold air in the same tube with the ascending current of hot air.

Inlet ventilators should provide for the admission of air in an upward direction, and it is advisable for the ventilator to widen out at the mouth to diffuse the air as it enters an apartment.

Ventilators should be simple in form and either automatic or very easily and inexpensively worked

Capt. Douglas Galton said at the Domestic Economy Congress:

"The simple forms of ventilation rest on the principle of an outlet for the warmed air, and an inlet for fresh air. The position of the inlet is of material importance, because the question as to whether draughts are felt or not, necessarily depends upon that It is desirable to admit fresh air, especially cool air, at the upper part of the room, above the heads of the occupants. It thus becomes partially warmed by the air already in the room. The Sheringham Ventilator is admirable in this respect, in that it is placed near the ceiling, and the incoming air thrown upwards. If, in addition to the Sheringham Ventilator, the flue is carried up from near the ceiling of the room, the air of a room, if warmer than the outer air, will pass up the flue, and its place be supplied with air through the Sheringham Ventilator—one will act as an outlet and the other as an inlet."

The following are some of the systems used with success:

Boyle's Air Pump Ventilators are constructed on the following principle: air impinging upon and reflected from concave surfaces creates currents of air, which form a vacuum in an upshaft, into which the vitiated air rushes to be carried away with the outgoing current.

Gibbs' Patent Weatherproof Extractor, manufactured by the Patentees, Messrs. John Gibbs & Son, of 27, South John Street, Liverpool, is a ventilator of very superior description and design, one important distinctive feature of which is that of being strongly made, rivetted throughout, and entirely independent of solder in its construction, an advantage which will be at once appreciated by all practical men, to whom it is readily evident that this method of construction will remove all possibility of the ventilators falling to pieces, and, in fact, make them practically everlasting; in addition to which the inventors have wisely dispensed with the use of all loose plates (so liable to cause disagreeable rattling in windy weather) and have succeeded in producing a ventilator capable of creating a most powerful up-draught without the disadvantage of any moving parts (which are always so liable to derangement).

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ROBERT BOYLE & SON'S

LATEST IMPROVED PATENT (1882)

Self-Acting Air-Pump VENTILATOR.

(PERFECTED OCTOBER, 1887.)

FIFTY PER CENT. REDUCTION IN PRICE.

No. 1. Registered Design

THE MOST POWERFUL EXHAUST AND

CHEAPEST VENTILATOR IN THE MARKET

IMPERVIOUS TO WET & DOWN-DRAUGHT.

Strongly made of the Best Steel, Galvanized, and Finest Workmanship.

No. 4.

CAUTION TO ARCHITECTS.

FRAUDULENT SUBSTITUTION

It is respectfully requested that in specifying the Ventilator the words "Robert Boyle & Son's latest improved Patent Self-acting Air Pump Ventilator" be used.

No. 2.

ROBERT BOYLE AND SON'S

LATEST IMPROVED PATENT (1882)

SOIL PIPE VENTILATORS.

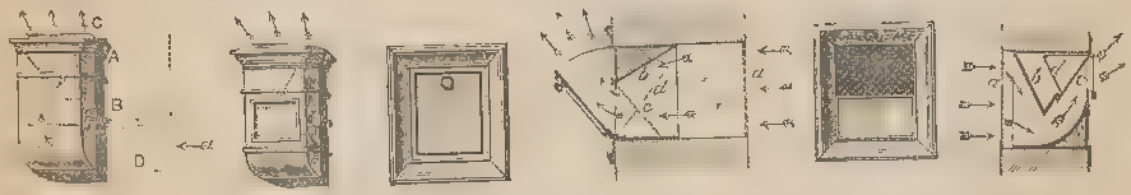
THE CHEAPEST AND MOST EFFICIENT IN THE MARKET.

FROM 12/- EACH.

Approved of and used by Baldwin Latham, C.E., Bailey Denton, C.E., W. Eassie, C.E., and by all the leading Architects, Sanitary Engineers, Builders, and Plumbers in the United Kingdom.

ROBERT BOYLE & SON'S

Latest Improved Air Inlet Brackets and Wall Panels, from 10 - each.



Bracket No. 1A. Bracket No. 2A. Panel No. 2B. Section No. 2B. Panel No. 2C. Section No. 2C.

N.B.—All the above Appliances are manufactured solely by us, and none are genuine unless they bear our registered Title and Trade Mark, any infringement of which involves a penalty of two years' imprisonment.

Registered Trade Mark — SELF-ACTING AIR PUMP VENTILATOR

ROBERT BOYLE & SON, Ltd., 64, Holborn Viaduct, London; & 110, Bothwell St., Glasgow

CATALOGUES, PRICE LISTS, &c., SENT POST FREE ON APPLICATION.

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The extensive and continued use of Messrs Gibbs' ventilators by those who have already tried them is the best possible testimony in their favour.

Great attention has also been paid by Messrs. John Gibbs and Sons to their designs being such as would have a good solid appearance, and really harmonise with the workmanship and detail of any first-class building, as such architects may rely with confidence upon this fact.

Gibbs' Patent Noiseless Outlet Ventilator has, as its name implies, the advantage of being practically noiseless. Any one who has had experience with other ventilators of this form will at once appreciate the value of this invention.

Glaholm & Robson's Extractor consists of a contractor made of cast iron, inserted across a flue from 6 to 12 inches below a ventilator. The opening in the contractor being less than the size of flue, the rush of air immediately through the opening is greatly accelerated, and causes a sharp up current, which induces an exhaust through the ventilator from the apartment. Many of these ventilators have been successfully used.

Hayward Brothers & Eckstein manufacture a large number of Inlet and Outlet Ventilators of various patterns and descriptions, principal amongst which are the Sheringham Inlet Ventilator, and Mica Flap Outlet Ventilator.

Hayward's Sheringham Inlet Ventilators are fixed in the exterior wall, about two feet below the ceiling, on one or both sides of the window, and one or two of the Improved Mica Outlet Ventilators are fixed in the chimney breast, in the flue, immediately under the cornice. By this arrangement the upper stratum of air in the room is continually changed imperceptibly and without draught. A great advantage, too, from this plan is that when all have retired to bed, the action of these vents is not impeded, and the air of the room is absolutely fresh in the morning. This arrangement can generally be adapted to existing apartments with less trouble and expense than any other.

They also make Tobin's Inlet Tubes, Silk Flap Outlet Ventilators for air-extracting shafts, Louvre Inlet and Outlet Ventilators, and Fresh-air Mica Inlet Valves for Drains.

Further particulars of the Manufactures of this firm will be found in the COMPLETE CATALOGUE.

Shorland's Inlet and Outlet Ventilators.—The Inlet Ventilators admit the cold air into rooms of every description without draught, and are made in every design. The Patent Roof Ventilators are octagonal in form, and are so constructed that although the openings for the discharge of vitiated air are very numerous and large, yet a down draught is an impossibility.

A special feature of these Inlet and Outlet Ventilators is that they are all made by means of special machinery, which enables their being made without a large number of joints, and also in much stronger material than could be possibly used in hand-made Ventilators, although at a less price. (See Advertisement in the COMPLETE CATALOGUE.)

Strode & Co's Sun Burners are an effective means of ventilation. They create and maintain an upward current, which carries off and discharges all products of combustion at once in the outer air, and at the same time gives a most brilliant light. The *Sun Burners* are fitted with a self-acting valve, which opens directly the gas is turned on for lighting, and closes immediately it is turned off, thus preventing down draughts. The inner and outer cones and cases are perforated and filled with mica, which not only allows the light of the burner to pass through, and avoids the casting of shadows upon the ceiling, but is an ornamental feature in their design.

WALL AND CEILING COVERINGS.

PAPERHANGINGS.

Paperhangings arrange themselves naturally into two great divisions, *machine work* and *hand work*; that is, papers printed from cylinders by steam machinery, and papers printed from blocks by hand power only. In both processes the printing is done from the raised surface of a roller or block.

In *machine printing* the design is raised above the level of the wooden cylinder by means of copper bands or tapes, driven edgewise into the wood following the contour of the design which has been previously drawn upon it, and the solid parts are filled in with felt. The paper passes over a huge drum in contact with the printing rollers and receives, during one revolution of the drum, all the colours necessary to complete it, each tint being printed from a separate roller, which in its turn is supplied with colour by a supplementary roller, covered with felt, which revolves in a bath or trough of colour. The paper, on leaving the printing machine, is carried away automatically into the drying-room, where it is rapidly dried over a series of heated pipes, or pans. Machine printing has now been brought to a great state of perfection, and it is sometimes difficult to distinguish some of the best samples printed on specially thick paper from hand work, so far as the superficial appearance is concerned.

Block Printing.—The first operation in block printing is colouring the ground. In this the paper is laid upon a long table; the workman covers the whole surface with colour by means of two large round brushes held in either hand; a boy follows with another brush, to keep the colour alive; the man then goes over the whole again very lightly with a clean brush to finish the smoothing, and the paper is hung up to dry. The next step to colouring the grounds is the printing. The blocks are made of two thicknesses of deal, glued together transversely to prevent warping, with a facing of pear tree wood. In broad, bold designs such as require felting in rollers, the design is cut in wood, the part of the block not required being cut away, and the design left in relief; and in designs consisting of fine delicate lines copper bands are used as in roller making.

The normal size of the printing block is 21 in. square. In English papers they are almost always of that width, but they vary in length according to the nature of the pattern, some more, some less, and where a design is too large to print from one block it is made up of any number needful to complete it. In a design composed of two or more colours each colour is usually printed separately, the papers being slowly dried between the printings at the ordinary temperature of the atmosphere, but several colours may be printed at one time; they, however, tax the skill of the workmen and increase the cost.

Amongst modern improvements in paperstaining is the use of powdered mica on the grounds to produce a silky effect. The material itself is indestructible by fire, insoluble in water, and untarnishable by atmospheric influences. When properly applied it produces an imperishable silky sheen on the paper, soft and rich in effect, especially by gas or other artificial light.

Flock Papers differ from water colour papers both in the material used to form the design and the medium employed in affixing it to the paper. The flock itself is wool ground to a fine powder, and it is fixed to the paper by an oil colour of a specially sticky nature. The pattern is printed in this sticky oil colour, and the paper is immediately passed into a trough with a linen bottom, on which the paper rests; the flock dust is then thrown upon it; and it is beaten with a cane which makes the flock dance up in a cloud, and, by force of gravitation, fall down and sink firmly into the oil colour until the whole of the sticky surface is so evenly covered that it looks like a piece of cloth or velvet.

Raised Flock Papers are a development of the ordinary flocking process, the printing and flocking being repeated time after time, until the required degree of relief is obtained.

Patent Embossed Blocks.—In these papers the design is raised into relief by repeated printings and flockings, in the same manner as if intended to be painted over; it is, however, finished in coloured flocks that do not require painting over, and it is finely embossed under heavy pressure by means of heated dies, which give to the raised surface of the flock beautifully modelled appearance like carving in *bas relief*.

Leather Papers are another important branch of the paperstaining industry. These are broadly of two kinds—the first printed like ordinary papers with one or many colours on thick tough paper, often varnished, and then stamped with a die, giving them an embossed or leathery look, and the next and more important stamped in much higher relief, gilt or silvered, and then coloured and lacquered by hand, producing a more artistic effect free from the monotony of printing or other mechanical aid.

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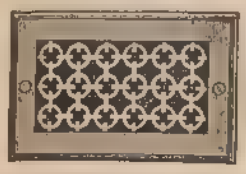
GIBBS' PATENT
Noiseless Outlet Ventilator.



BRASS TRELLIS FRONTS

GIBBS' PATENT
WEATHERPROOF EXTRACTORS

IN CONSTANT AND EXTENSIVE USE BY THE ADMIRALTY, HER MAJESTY'S OFFICE OF WORKS, THE LEADING STEAMSHIP COMPANIES AND ARCHITECTS THROUGHOUT THE KINGDOM.

THEIR QUALITIES AND CAPABILITIES HAVE STOOD THE PRACTICAL TEST OF TIME.

GIBBS' PATENT
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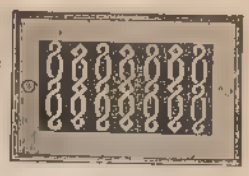
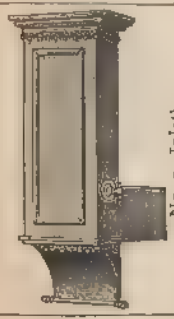


PLAIN [illegible] FRONTS

JOHN GIBBS & SON.

CHEAPEST,
STRONGEST,
AND
BEST VENTILATOR
IN THE MARKET.

GIBBS' IMPROVED VERTICAL INLET.



No 7 (Inlet).
ORNAMENTAL BRACKET PATTERN.

No. 3 (Registered Design).
GIBBS PATENT WEATHERPROOF EXTRACTOR.

No. 7 (Rd. Design)

KINDLY
COMPARE MAKE
AND
PRICE.

GIBBS' IMPROVED VERTICAL INLET

No. 4 (Circular Front)
STRONG GALVANIZED BOARD SCHOOL PATTERN.

Gothic.
SOIL PIPE PATTERN.

(Registered Design)
PRICE ON APPLICATION

PRICE LIST—EX-WORKS, LIVERPOOL. (SUBJECT TO ALTERATION WITHOUT NOTICE.)

ROOF VENTILATORS, Patterns No. 1 to 3, Strong Galvanized Steel Painted with Enamelled Paint

Extractor,	12in. dia.	4½ to 6in. pipe	£1 11 6	Extractor	20in. dia.	8 to 10in. pipe	£3 17 0	Extractor	36in. dia.	14 to 18in. pipe	£9 15 0
"	14 "	5 to 7	1 17 6		24 "	[illegible]	6 6 0		42 "	[illegible]	11 17 6
	16	6 to 8 "	2 12 6		27	[illegible]	8 7 6	"	48 "	[illegible]	16 15 0
"	18 "	7 to 9 "	3 5 0		[illegible] "	[illegible] to 15 "	7 10 0	"	54 "	[illegible] to 17 "	19 0 0

ALL FURTHER PARTICULARS MAY BE HAD FROM THE SOLE PATENTEES AND MANUFACTURERS,

Telephone Number, 1389

JOHN GIBBS & SON, Ventilating & Consulting Engineers,
27, SOUTH JOHN STREET, LIVERPOOL.

Telegrams VENTILATION, Liverpool

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Arsenical Pigments, formerly much used in the manufacture of papers, have of recent years been justly condemned as injurious to health, owing to the fine dust or particles of arsenic flying off from the surface of the paper and contaminating the air. Architects and builders should insist upon using none but non arsenical papers for works under their control. It is not difficult to obtain such papers, and there is practically no difference in their cost over those of similar qualities in other respects made with arsenical colours.

JEFFREY & CO.'S VICTORIAN WALL PAPERS.

Jeffrey & Co.'s "Victorian Wall Papers" are a collection of designs larger in scale than the ordinary Patterns. The breadth of design, which is so desirable a thing in decoration, has in the *Pattern Book* not unfrequently the appearance of coarseness. The real danger in the selection of a wall-paper is lest it appear *too small* on the wall. Each impression of these Patterns bears on the margin the words, "Victorian Wall-Paper," in addition to the distinguishing name of the design. They are printed in ordinary colours, as well as in rich shades of varied flock, with or without gold.

LINCRUSTA WALTON.

This material is manufactured in a similar manner to Linoleum, its surface being impressed with a low relief which can be left in monotone or be handsomely decorated. It is impervious to moisture, has been used with success as an application for damp walls, and can be scrubbed or washed without injury.

WALL PAPERS.

English papers are 21 inches wide, and 12 yards long.

Approximate number of pieces of English Wall paper required for any room. (*Allowance to be made for doors and windows.*)

Measurement in feet round the walls.	Height of room in feet from skirting to cornice.									
	6	7	8	9	10	11	12	13	14	15
	Number of Pieces Required.									
32 ..	4	4	5	5	6	6	7	7	8	8
36 ..	4	5	5	6	6	7	7	8	9	9
40 ..	4	5	6	6	7	8	8	9	9	10
44 ..	5	5	6	7	8	8	9	10	10	11
48 ..	5	6	7	7	8	9	10	10	11	12
52 ..	6	6	7	8	9	10	10	11	12	13
56 ..	6	7	8	8	9	10	11	12	13	14
60 ..	6	7	8	9	10	11	12	13	14	15
64 ..	7	8	9	10	11	12	13	14	15	16
68 ..	7	8	9	10	11	12	13	15	16	17
72 ..	7	9	10	11	12	13	14	15	17	18
76 ..	8	9	10	11	13	14	15	16	17	19
80 ..	8	9	11	11	13	15	16	17	18	20
84 ..	9	10	11	12	14	15	17	18	19	21
88 ..	9	10	12	12	14	16	17	19	20	22
92 ..	9	11	12	13	15	17	18	19	21	22
96 ..	10	11	13	13	16	17	19	20	22	23
100 ..	10	12	13	15	16	18	20	21	24	24

WALLS.

(*Building Act, 1855.*)

Recesses and Openings.—Recesses and openings may be made in external walls, provided, 1. That the backs of such recesses are not of less thickness than eight and a half inches; and, 2. That the area of such recesses and openings do not, taken together, exceed one-half of the whole area of the wall in which they are made.

Recesses may be made in party walls, provided that, 1. The backs of such recesses are not of less thickness than 13 inches; and, 2. That every recess so formed is arched over, and that the area of such recesses do not, taken altogether, exceed one-half of the whole area of the wall of the story in which they are made; and, 3. That such recesses do not come within one foot of the inner face of the external walls. But no opening may be made in any party wall except in accordance with the rules of the Metropolitan Building Act.

Parapets to External Walls. If any gutter, any part of which is formed of combustible materials, adjoins an external wall, then such wall must be carried up so as to form a parapet one foot at the least above the highest part of such gutter, and the thickness of the parapet so carried up must be at the least 8½ inches, reckoned from the level of the under side of the gutter plate.

Height of Party Walls above Roof.—Every party wall must be carried up above the roof flat or gutter of the highest building adjoining thereto, to such height as will give a distance of fifteen inches measured at right angles to the slope of the roof, or fifteen inches above the highest part of any flat or gutter, as the case may be, and every party wall must be carried up above any turret, dormer, lantern light, or other erection of combustible materials fixed upon the roof or flat of any building within four feet from such party wall, and must extend at the least twelve inches higher and wider on each side than such erection, and every party wall must be carried up above any part of any roof opposite thereto, and within four feet from such party wall.

Chases in Party Walls.—In a party wall no chase may be made wider than fourteen inches nor more than four and a half inches deep from the face of the wall, nor so as to leave less than eight and a half inches in thickness at the back or opposite side thereof, and no chase may be made within a distance of seven feet from any other chase on the same side of the wall.

THICKNESS OF DWELLING HOUSE WALLS.

Height up to 100 feet.

Length up to 45 feet.—Two stories, 21½ inches. Three stories, 17½ inches. Remainder, 13 inches.

Length up to 80 Feet. Two stories, 26 inches. Two stories, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Length unlimited.—One story, 30 inches. Two stories, 26 inches. Two stories, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Height up to 90 feet.

Length up to 45 feet.—Two stories, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Length up to 70 feet.—One story, 26 inches. Two stories, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Length unlimited.—One story, 30 inches. Two stories, 26 inches. One story, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Height up to 80 feet.

Length up to 40 feet.—One story, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Length up to 60 feet. Two stories, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Length unlimited.—One story, 26 inches. Two stories, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Height up to 70 feet.

Length up to 40 feet.—Two stories, 17½ inches. Remainder, 13 inches.

Length up to 55 feet.—One story, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

Length unlimited.—One story, 26 inches. Two stories, 21½ inches. One story, 17½ inches. Remainder, 13 inches.

Height up to 60 feet.

Length up to 30 feet.—One story, 17½ inches. Remainder, 13 inches.

Length up to 50 feet.—Two stories, 17½ inches. Remainder, 13 inches.

Length unlimited.—One story, 21½ inches. Two stories, 17½ inches. Remainder, 13 inches.

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JEFFREY & CO.

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INEXPENSIVE MACHINE PRINTED PAPERS
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} *KEPT IN STOCK FOR THE CURRENT SEASON.*

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Being a Collection of Designs, larger in scale than ordinary Patterns, adapted to the decoration of Mansions and Staircases, and also for Rooms of moderate size.

Books of Patterns of above sent on loan, upon application stating what class of Papers are required.

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GOLD MEDAL, Paris, 1889.

JEFFREY & CO., 64, Factory & Show Rooms, Essex Road, LONDON, N.

SEE ILLUSTRATIONS, SECTION M, *PAGES* 454 *to* 457.

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Height up to 50 feet.

Length up to 30 feet. Wall below the topmost story, 13 inches. Topmost story, 8½ inches. Remainder, 8½ inches.
Length up to 45 feet.—One story, 17½ inches. Rest of wall below topmost story, 13 inches. Topmost story, 8½ inches. Remainder 8½ inches.
Length unlimited.—One story, 21½ inches. One story, 17½ inches. Remainder, 13 inches.

Height up to 40 feet.

Length up to 35 feet.—Wall below two topmost stories, 13 inches. Two topmost stories, 8½ inches. Remainder, 8½ inches.
Length unlimited. One story, 17½ inches. Rest of wall below topmost story, 13 inches. Topmost story, 8½ inches. Remainder, 8½ inches.

Height up to 30 feet.

Length up to 35 feet.—Wall below two topmost stories, 13 inches. Two topmost stories, 8½ inches. Remainder, 8½ inches.
Length unlimited.—Wall below topmost story, 13 inches. Topmost story, 8½ inches. Remainder, 8½ inches.

Height up to 25 feet.

Length up to 30 feet.—From base to top of wall, 8½ inches.
Length unlimited.—Wall below topmost story, 13 inches. Topmost story, 8½ inches. Remainder, 8½ inches.

Walls not exceeding 25 feet apart. If any external or party wall, measured from centre to centre, is not more than 25 feet distant from any other external or party wall to which it is tied by the beams of any floor or floors, other than the ground floor, or the floor of any story formed in the roof, the length of such wall is not to be taken into consideration, and the thickness of the wall will be the same as for walls of the shortest lengths given respectively.

Stories exceeding a certain Height.—If any story exceeds in height 16 times the thickness prescribed for the walls of such story, the thickness of each external and party wall throughout such story shall be increased to one-sixteenth part of the height of the story, but any such additional thickness may be confined to piers properly distributed, of which the collective widths amount to one-fourth part of the length of the wall.

No story enclosed with walls less than 13 inches in thickness shall be more than 10 feet in height.

Buildings not being Public Buildings or of the Warehouse Class.—All buildings, excepting public buildings, and such buildings as are hereinafter defined to be buildings of the warehouse class, shall, as respects the thickness of their walls, be subject to the rules given for dwelling houses.

RULES FOR THE WALLS OF BUILDINGS OF THE WAREHOUSE CLASS.

Definition of Warehouse Class.—The warehouse class shall comprise all warehouses, manufactories, breweries, and distilleries.

Height up to 100 feet.

Length up to 55 feet.—Base, 26 inches.
Length up to 70 feet.—Base, 30 inches.
Length unlimited.—Base, 34 inches.

Height up to 90 feet.

Length up to 60 feet.—Base, 26 inches.
Length up to 70 feet.—Base, 30 inches.
Length unlimited.—Base, 34 inches.

Height up to 80 feet.

Length up to 45 feet.—Base, 21½ inches.
Length up to 60 feet.—Base, 26 inches.
Length unlimited.—Base, 30 inches.

Height up to 70 feet.

Length up to 30 feet.—Base, 17½ inches.
Length up to 45 feet. Base, 21½ inches.
Length unlimited.—Base, 26 inches.

Height up to 60 feet.

Length up to 35 feet.—Base, 17½ inches.
Length up to 50 feet. Base, 21½ inches
Length unlimited.—Base, 26 inches.

Height up to 50 feet.

Length up to 40 feet.—Base, 17½ inches.
Length up to 70 feet. Base, 21½ inches.
Length unlimited.—Base, 26 inches.

Height up to 40 feet.

Length up to 30 feet.—Base, 13 inches.
Length up to 60 feet.—Base, 17½ inches.
Length unlimited. Base, 21½ inches.

Height up to 30 feet.

Length up to 45 feet.—Base, 13 inches.
Length unlimited.—Base, 17½ inches.

Height up to 25 feet

Length unlimited.—Base, 13 inches.

The above Rules are to be used in the same manner as the Rules previously given for the walls of dwelling-houses, and are subject to the same qualifications and conditions respecting walls not more than 25 feet distant from each other.

The thickness of the walls at the top, and for 16 feet below the top, shall be 13 inches; and the intermediate parts of the wall between the base and such 16 feet below the top shall be built solid throughout the space between straight lines drawn on each side of the wall, and joining the thickness at the base to the thickness at 16 feet below the top, as above determined; nevertheless in walls not exceeding 30 feet in height the walls of the topmost story may be eight inches and a half thick.

If in any story of a building of the warehouse class the thickness of the wall, as determined by the rules hereinbefore given, is less than one-fourteenth part of the height of such story, the thickness of the wall shall be increased to one-fourteenth part of the height of the story, but any such additional thickness may be confined to piers properly distributed, of which the collective widths amount to one-fourth part of the length of the wall.

Walls built of Materials other than Bricks.—The thickness of any wall of a building of the warehouse class, if built of materials other than bricks, as shall be deemed to be sufficient if made of the thickness required by the above Rules, or of such less thickness as may be approved, with this exception, that in the case of walls built of stone in which the beds of the masonry are not laid horizontally no diminution shall be allowed in the thickness required by the foregoing Rules for such last-mentioned walls.

MISCELLANEOUS.

Cross Walls.—The thickness of a cross wall shall be two-thirds of the thickness hereinbefore required for an external or party wall of the same dimensions, and belonging to the same class of buildings, but never less than 8½ inches; and no wall subdividing any building shall be deemed to be a cross wall unless it is carried up to two-thirds of the height of the external or party walls, and unless the recesses and openings therein do not exceed one half of the vertical surface of the wall in each story.

Extra Thickness of certain Stone Walls.—The thickness of every stone wall in which the beds of the masonry are not laid horizontally shall be one-third greater than the thickness prescribed in the Rules aforesaid.

Buildings to which the preceding rules are inapplicable require the special sanction of the London County Council.

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WARMING

Steam.—The principle of warming by steam is the rapid condensation of steam into water on coming in contact with cooling surfaces, the latent heat of steam being given out at the moment of condensation.

Hot Water.—There are two systems of heating by hot water—the large pipe, or low pressure, and the small pipe, or high pressure. In the former the pipes are generally of cast iron, the water is not heated above boiling point, and the boiler is usually of the saddleback description.

Alteration of levels in laying the pipes should be avoided, that the rising and descending streams of water may not be checked in the course of their flow, and to prevent the accumulation of air or steam in any part of the circulation.

Where two apartments, separated by some distance, are to be warmed from one furnace, the connecting pipes may be smaller than those used for circulation in the apartments, as the water will pass more rapidly through a smaller pipe and lose less heat.

In the high pressure system the water is heated to 400 degs. Fahr. or more, but no steam or expansive or explosive vapour is generated as no air is left in the tubes. These are of strong wrought iron, usually 1¼ inch in diameter and ⅜ inch in bore, and work at a high pressure of 300 lbs. or more to the square inch. Good firms prove each apparatus by hydraulic pressure to 3,000 lbs to the square inch

The great bulk of water in the large pipes employed in low pressure heating, by keeping hot for some time after the fire is out, renders this system applicable for greenhouses, conservatories, &c. The small bore pipes have an advantage in heating of habitable buildings by being far less conspicuous and unsightly; the water also circulates more rapidly, and the heat can consequently be very quickly attained. For drying closets, Turkish baths, &c., where high temperatures are required, this system is well adapted. The boiler, which consists merely of a coil of the same tube, is so designed as to secure the greatest advantage from the fire; it is claimed for the high pressure system that it is more economical than any known method of heating. Experiments have proved that, owing to the higher temperature at which they work, the small pipes are foot per foot about equal in heating capacity to those generally used in low pressure work: by the use of a chemical solution instead of pure water they can also be protected against the danger of frost bursts.

TO FIND LENGTH OF PIPE TO WARM A BUILDING BY HOT WATER

P.=Temperature of pipes. T.=Temperature required in building. t.=Temperature of external air. C .Cube feet to be warmed per minute. L Length of pipe.

$$L \quad \frac{(P-t)\,(T-t)}{P-T} \times \cdot 0045C. \text{ for 4 inch pipes,}$$
$$\times \cdot 006C. \text{ for 3 inch pipes and } \cdot 009C. \text{ for 2 inch pipes.}$$

In Churches and public rooms, where heat is generated by respiration of a large assembly, the air does not require to be heated above 55 degrees to 58 degrees. A simple rule for finding length of pipe required, allowing for an average number of doors and windows and usual ventilation, is to take the cubical measurement of space and divide by 200 for 4 inch pipe, by 150 for 3 inch pipe and by 100 for 2 inch pipe.

Hot Air, Grundy's Patent—The air is heated in an air chamber usually constructed in a vault under or near the building being first taken from the outside, and conveyed through earthenware pipes to the heating chamber. It is then brought up through brick flues and admitted through open pattern gratings in the floor of the building At the same time the apparatus draws out through other gratings the cold air. In summer a constant supply of fresh external air passes through the cold air flues to cool and ventilate the building

STOVES, GRATES, &c.

Grundy's Warm Air Ventilating Fire Grate is made in the form of a Stove, the back of which is semi-circular in shape, with gills behind, and smoke nozzle on top—all cast in one piece. An iron pipe is inserted in the smoke nozzle, and carried for any length up the chimney, which for the said length, is used as a hot air chamber for supplying warm air to the room or rooms. The cold air is admitted from behind the Stove at the bottom, and the warm air is conveyed into the rooms by means of gratings fixed in the walls.

Shorland's Patent Manchester Grate—The object of this Grate is, in addition to the heat given off by radiation, to supply large volumes of pure warm air either into the room in which the grate is fixed, or into other rooms above or adjoining. This is attained by means of a hermetically sealed warm air generating Manchester back, which forms an air-chamber at the back and sides of the Grate, lined with fire tiles, and also under the back hearth, which is of iron. Cold air admitted from without, passing into these air chambers, is warmed and conducted by circular clay or iron pipes up the chimney breast to the outlets into rooms. This patent arrangement is applicable to every design of fire grate, and does not alter the appearance, though it converts the ordinary extravagant open fire grate into the most economical of Grates, and largely promotes ventilation.

Shorland's Patent Combination Open Fire-place Manchester Stove. This Stove is constructed on similar principles to the Patent Manchester Grate, having air-chambers at sides, back, and under fire-box, made of iron, lined with fire-clay Cold air from the outside is passed through these chambers and delivered in large volumes into room through the ornamental perforated top of Stove, thus both warming and ventilating. These stoves are made in almost every design, and are most suitable for large rooms having no fireplaces, such as Hospital Wards, Schools, Churches, Asylums, Banks, &c. They are made with either up or down draught smoke flue, and can be fixed in any part of room, and will burn any description of fuel.

Shorland's Patent Underground Hot Air Stove—This Stove, as its name implies, is fixed in the basement of the building to be heated. Cold air from the outside is thoroughly warmed in its passage through the various air chambers of the stove, and is then delivered in large volumes into the rooms to be heated through suitable gratings in the floor. Large buildings, such as Churches, Chapels, Public Halls, &c., are thus easily maintained at an equable and agreeable temperature throughout, and the ventilation greatly promoted. The Stove will burn any description of fuel, and, being lined with fire-clay is, like the Manchester Grates and Stoves, practically indestructible.

Strode and Co.'s Cadogan Gas Fire for fitting into ordinary grates. A specially prepared indestructible fire-clay lump is fitted into the grate, and covered with small pieces of Asbestos Fuel. The fire-clay lump has an aperture through which the gas flames pass from a swing-bar fitted in front and underneath the grate. The bar has an air-chamber fitted to it so that the gas is consumed on the atmospheric principle, for heating purposes the most economical, and one preventing the formation of soot.

SYPHON STOVES.

Clarke's Patent Syphon Stoves are so constructed that all smell and smoke given off by the burning of the gas or oil used for generating the heat is got rid of, and by a process of condensation set up within the stove itself avoiding the necessity of using a flue pipe, as in the case of other stoves. For halls, rooms, offices, and almost every position this advantage is most desirable where a coal fire is not practicable.

WATER.

Rain Water, owing to the absence of salts of lime and magnesia, is very soft, and suitable for washing and cooking purposes.

River Water is generally good and palatable for drinking, unless sewage and other impurities are allowed to flow into it

Spring Water is considered the best for most purposes, especially for drinking. "Springs are mostly the outflow of underground reservoirs of water at a greater height; or they may be the outflow of lakes or other elevated sheets of water." Springs arise from the water seeking its own level, or probably in some instances from its being forced up by the development of gases.

Artesian Wells are springs artificially formed by boring the ground until a sheet of water is tapped, which has in some part of it a higher level, to which level the water at once rises. The water is sometimes hot, and badly aerated, and requires to be exposed to the air before it becomes palatable, but it is generally free from impurities.

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The *quality of water*, and its composition, depend on the character of the strata through which it passes, and whether there be any source of contamination. If the materials forming the strata be granite, gneiss, trap, &c. (which contain but little soluble matter), the water will probably be very pure; clay, clay-slate, sand, and gravel, also yield pure water, if there is no neighbouring source of contamination; such waters are comparatively soft. Water from limestone and chalk is hard, its hardness, if due to salts of lime, such as sulphate of lime (Plaster of Paris), is detrimental; if, however, it is due to carbonate of lime (or chalk), it is largely removable by boiling. Water from magnesian limestone or dolomite is usually charged with magnesian salts which should always preclude its use. Water from marshes and alluvial soils is more or less charged with organic matter, which may render it dangerous for drinking purposes.

The *chemical composition* of water is:—By *volume*, hydrogen, 2, oxygen, 1; by *weight*, hydrogen, 1, oxygen, 8.

Water is always found more or less mixed with salts, organic or mineral matters, and gases, and is never chemically pure.

Good ordinary water, according to Dr. Parkes, should not contain a greater proportion of the following foreign matter per gallon respectively, viz., chloride of sodium, 10 grains; sulphate of soda, 6 grains; carbonate of soda, 20 grains; sulphate of lime, 3 grains; carbonate of lime, 14 grains; carbonate and sulphate of magnesia, 3 grains; organic matter, 1½ grains; the total of solid matter should not as a rule be more than 8 grains and never exceed 30. A gallon of water equals 70,000 grains.

Water containing *bacteria* and other fresh water algæ should be regarded with suspicion, as likely to contain contamination and disease germs.

Water containing little saline matter, as rain, or soft water has a tendency to dissolve lead and zinc, and should not therefore be conveyed or stored in pipes or cisterns made of those metals. 1 part of sulphate of lime in 5,000 parts of water is considered to prevent lead contamination.

Dr. Clarke's process of softening water.—Bi-carbonate of lime, the principal cause of hardness, is removable by adding an equal quantity of lime in solution to the pure lime in the bi-carbonate contained in the water. The solution of lime combines with one half of the carbonic acid and forms chalk, at the same time reducing the bi-carbonate in the water to chalk also. Chalk being insoluble settles to the bottom.

Water Supply.—Twenty gallons per head per day should be provided in non-manufacturing towns, and thirty gallons in manufacturing towns. Service tanks should provide for 3 days' supply.

Water at or below six degrees of hardness is soft water, above six degrees is hard water. Each degree of hardness destroys two a half ounces of soap in each one hundred gallons of water used for washing, its use is therefore more economical than hard water, and it is also more wholesome, and effects saving in tea-making, generating steam power, &c.

Water.—277·123 cubic inches equals 1 gallon; 1 gallon weighs 10 lbs., and occupies 0·16 of a cubic foot; 6¼ gallons equal 1 cubic foot; 1 cubic foot weighs 62·4 lbs.; 1 cwt. equals 1·8 cubic feet or 11·2 gallons; and one ton equals 35·9 cubic feet or 234 gallons. One cubic foot multiplied by 0·557 equals nearly 1 cwt.; 1 cubic foot multiplied by 0·028 equals 1 ton. One person consumes about 8 gallons daily, and 25 per cent. more in summer than winter, and 30 gallons is usually allowed per day for each person.

WEIGHT OF MATERIALS, &c.

BUILDING AND OTHER MATERIALS.

Weight in lbs. of one cubic foot.

Asphalte, 137 lbs.; Bath Stone, 123 lbs.; Brick—Fire Brick, 150 lbs.; Tipton (blue), 142 lbs.; Red Facing, 130 lbs., London Stocks, 115 lbs.; Brickwork In Cement, 115 lbs.; in Mortar, 112 lbs.; Concrete—Portland Cement, 132 lbs., Common Lime, 125 lbs.; Cement—Portland, 106 lbs.; Roman, 100 lbs.; Chalk—Solid, 125 lbs., in Lumps, 75 lbs.; Clay—Common, 125 lbs.; Medway, 90 lbs.; Common Earth, 95 to 125 lbs.; Coal, as sold by merchants—Cannel, 48 lbs.; Welsh, 53 lbs.; Scotch, 52 lbs.; Newcastle, 51 lbs.; Anthracite, 54 to 60 lbs.: Solid Coal, 80 lbs.; Coke, 45 lbs; Solid Coke, 60 lbs.; Emery, 250 lbs.; Earth, 70 lbs.; Flint, 164 lbs.; Glass (Plate), 169 lbs.; Granite—Cornish and Aberdeen, 166 lbs.; Red Egyptian, 166 lbs.; Guernsey, 185 lbs.: Gravel, 110 lbs.; Gypsum, natural state, 140 lbs.: Hair, ox, dried, 11 lbs.; Kentish Rag stone, 156 lbs., Lime—Of stone, 53 lbs., of chalk, 44 lbs., Limestone, 132 to 167 lbs.; Marble, average, 170 lbs.; Mortar, new 110 lbs.; Plaster of Paris, 80 lbs.; Portland Stone, 145 lbs.; Sand (wet), 130 lbs.; Sand (dry), 100 lbs.; Sandstone, 145 to 161 lbs.; Slate (Welsh), 175 to 184 lbs.; Tile, average, 115 lbs.; Yorkshire, paving, 156 lbs.

WEIGHTS OF TIMBERS.

	Weight per cubic foot in lbs.		Weight per cubic foot in lbs.
Ash	[illegible]	Mahogany (Spanish)	66
Beech	[illegible]	Oak, English	53
Birch	[illegible]	" American	45
Box	[illegible]	Pine, yellow	26
Cedar of Lebanon	[illegible]	" red	40
Chestnut	37	" pitch	[illegible]
Cork	15	Poplar	[illegible]
Ebony	63	Sycamore	[illegible]
Elm	[illegible]	Teak	7
Fir	[illegible]	Walnut	[illegible]
" Memel	[illegible]	Yew	47
Larch	[illegible]		

LIQUIDS.

Water (distilled), 62·33 lbs.; Water Sea, average, 64·03 lbs.; Acetic Acid, 66 lbs.; Alcohol, Absolute, 49·4; Alcohol Proof, 57 lbs.; Alcohol of Commerce, 52 lbs.; Ether, 44·6 lbs.; Hydrochloric Acid, 75·7 lbs.; Nitric Acid, 75 lbs.: Linseed Oil, 58 lbs.; Olive Oil, 57·2 lbs.; Oil of Turpentine, 54·4 lbs.; Whale Oil, 58 lbs.; Sulphuric Acid, 115 lbs.

METALS.

Aluminium, 160 lbs.; Antimony, cast, 419 lbs.; Bell Metal, 545 lbs.; Bismuth, cast, 613 lbs.; Brass, drawn, 524 lbs.; Bronze, 512 lbs.; Cast Iron, from 437 lbs. to 474 lbs.; Cast Lead, 709 lbs.; Copper, cast, 550 lbs.; Copper, sheet and wire, 555 lbs.; Drawn Copper, 555·6 lbs.; Gold, pure, 1,208 lbs.; Gold, standard, 1,108 lbs.; Gun Metal, 528·5 lbs.; Mercury, 848 lbs.; Milled Lead, 712 lbs.; Silver, pure, 654 lbs.; Silver, standard, 658 lbs.; Steel, 494 lbs.; Type Metal, 653 lbs.; Wrought Iron, from 475 lbs. to 487 lbs.; Zinc, 440 lbs.

The heaviest contain the least amount of carbon.

WEIGHTS OF MEN AND ANIMALS.

Average weight of a man, 140 lbs.; a crowd of men closely packed, 85 lbs. per foot super; heavy cavalry horse, 11 cwt.; light cavalry horse for riding, 8 cwt.; strong cart horse, 14 cwt. ox, 7 to 8 cwt.; cow, 6½ cwt., heifer, 3½ cwt.; pig, 1 to 1½ cwt. sheep, ¾ to 1 cwt.

TABLES.

LINEAR MEASURE.

1	Nail	2¼	Inches
1	Hand	4	Inches
3	Inches	1	Palm
[illegible]	Inches or 4 Nails	1	Span, or ¼ yard
12	Inches	1	Foot
3	Feet or 4 quarters	1	Yard
5	Quarters of yard	1	Ell
6	Feet or 2 yards	1	Fathom
16½	Ft. 6 in. or 5½ yds.		Rod, Pole, or Perch
	Poles or 22 yards	1	Chain
[illegible]	Yards or 40 Poles		[illegible]
1	Yds or 8 Furlongs	1	Mile [illegible] feet
[illegible]	Inches	1	[illegible]
[illegible]	Links or 66 Feet	[illegible]	[illegible]
	Chains	1	[illegible]
	Chains	1	Mile
3	Miles	1	League
[illegible]	[illegible]	1	[illegible] foot
607	[illegible]	1	Nautical Mile
69·04	Miles	1	Degree (°) of lat.
69·16	Miles	1	Degree of long. at Eqtr.
43·08	Miles	1	do do. at London
The Cheshire Pole		8	Yards

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LENGTHS OF A FOOT IN DIFFERENT COUNTRIES.

	Eng. Ins.		Eng. Ins.
Spain	11·03	Prussia	12 36
Holland	11·14	Austria	12·45
Sweden	11 69	Portugal	12 96
America .	12 00	Russia	13 75
Denmark and Norway	12·35	France, metre	39·37

LENGTHS OF A MILE IN DIFFERENT COUNTRIES.

	Eng Yds.		Eng. Yds.
Russian..	1,100	Spanish..	5,028
Italian	1,467	German	5,866
English.. .. .	1,760	Swedish and Danish..	7,233
Scotch .. .	1,984	Hungarian	8,630
Irish	2,200	Norwegian	12,400
Polish	4,400	French League ..	3,666

SQUARE MEASURE.

144 parts .. .. .. = 1 square inch.
144 square inches .. = 1 square foot
9 square feet .. .. = 1 square yard
272¼ feet .. .. .. = 1 square rod or pole
40 rods .. .. .. = 1 square rood
4 roods
160 rods
4840 yards
43560 feet
10 square chains } = 1 acre
1 hectare .. .. = 2·471 acres
640 acres .. .. = 1 square mile
1 chain wide .. .. = 8 acres per mile length
Sq. inches × ·007.. .. = square feet nearly
Sq. yards × ·00021 .. = acres nearly
7840 square yards.. .. = 1 Irish acre
6150 square yards.. .. = 1 Scotch acre

LAND MEASURE.

40 square poles .. .. = 1 square rood
4 sq. rds., or 4,840 sq. yds. = 1 square acre
640 acres .. .. = 1 square mile
30 square acres .. .. = 1 yard of land
100 square acres .. .. = 1 hide of land
40 hides .. .. .. = 1 baroney

SOLID OR CUBIC MEASURE.

1728 cubic inches .. .. = 1 cubic foot
27 cubic feet .. .. = 1 cubic yard
40 cubic feet of rough, or 50 cub. ft of hewn timber = 1 ton or load
42 cubic feet of timber.. = 1 shipping ton
108 cubic feet .. .. = 1 stack of wood
128 cubic feet .. .. = 1 cord of wood

AVOIRDUPOIS WEIGHT.

16 drachms ..	= 1 ounce	20 cwt. ..	= 1 ton
16 ounces ..	1 lb.	lbs. × ·009..	= cwt. nearly
28 lbs. ..	1 qr.cwt.	lbs. × ·0045	= tons nearly
112 lbs. ..	1 cwt.	7000 grains ..	= 1 lb avdp.
		437½ ,, ..	= 1 oz. ,,

TABLE.

For purchasing Leases, Estates, or Annuities, for terms of Years certain, showing the number of Years' purchase to repay the Purchaser his Principal and Interest at the various rates.

	YEARS PURCHASE.							
	3 p. c.	4 p. c.	5 p. c.	6 p. c.	7 p. c	8 p. c.	9 p. c	10 p. c
1	0·97	0·96	0·95	0·94	0·94	0·93	0·92	0·91
2	1·91	1·89	1·86	1·83	1·81	1·78	1·76	1·74
3	2·83	2·78	2·72	2·67	2·62	2·57	2·53	2·49
4	3·72	3·63	3·55	3·47	3·39	3·31	3·24	3·17
5	4·58	4·45	4·33	4·21	4·10	3·99	3·89	3·79
6	5·42	5·24	5·07	4·92	4·77	4·62	4·49	4·36
7	6·23	6·00	5·79	5·58	5·39	5·21	5·03	4·87
8	7·02	6·73	6·46	6·21	5·97	5·75	5·54	5·34
9	7·79	7·43	7·11	6·80	6·52	6·25	6·00	5·76
10	8·53	8·11	7·72	7·36	7·02	6·71	6·42	6·14
11	9·25	8·76	8·31	7·89	7·50	7·14	6·81	6·50
12	9·95	9·39	8·86	8·38	7·94	7·54	7·16	6·81
13	10·64	9·99	9·39	8·85	8·36	7·90	7·49	7·10
14	11·30	10·56	9·90	9·29	8·75	8·24	7·79	7·37
15	11·94	11·12	10·38	9·71	9·11	8·56	8·06	7·61
16	12·56	11·65	10·84	10·11	9·45	8·85	8·31	7·82
17	13·17	12·17	11·27	10·48	9·76	9·12	8·54	8·02
18	13·75	12·66	11·69	10·83	10·06	9·37	8·76	8·20
19	14·32	13·13	12·09	11·16	10·33	9·60	8·97	8·37
20	14·88	13·59	12·46	11·47	10·59	9·82	9·13	8·51
21	15·42	14·03	12·82	11·76	10·84	10·02	9·30	8·65
22	15·95	14·45	13·16	12·04	11·06	10·20	9·44	8·77
23	16·46	14·86	13·489	12·30	11·27	10·37	9·58	8·88
24	16·94	15·25	13·799	12·55	11·47	10·53	9·71	8·99
25	17·41	15·62	14·09	12·78	11·65	10·68	9·82	9·08
30	19·60	17·29	15·37	13·77	12·41	11·26	10·27	9·43
35	21·49	18·67	16·37	14·50	12·95	11·66	10·57	9·64
40	23·12	19·79	17·11	15·05	13·33	11·93	10·79	9·78
45	24·52	20·72	17·77	15·46	13·61	12·11	10·93	9·88
50	25·73	21·48	18·26	15·76	13·80	12·23	11·02	9·93
55	26·77	22·11	18·73	15·99	13·94	12·32	11·08	9·95
60	27·676	22·62	19·03	16·16	14·04	12·38	11·12	9·97
65	28·45	23·05	19·31	16·29	14·10	12·42	11·15	9·98
70	29·12	23·40	19·54	16·39	14·15	12·44	11·17	9·99
75	29·70	23·70	19·73	16·46	14·18	12·46	11·18	9·99
80	30·20	23·93	19·88	16·51	14·21	12·47	11·19	10·00
85	30·63	24·12	19·99	16·55	14·23	12·48	11·19	10·00
90	31·00	24·27	20·09	16·58	14·24	12·49	11·19	10·00
95	31·32	24·40	20·16	16·60	14·26	12·49	11·19	10·00
100	31·60	24·51	19·85	16·62	14·27	12·49	11·11	10·00
Perp	33·33	25·00	20·00	16·67	14·29	12·50	11·11	10·00

Thus, £65 per annum for 40 years at 6 per cent. is worth 15·05 years' purchase, or £978·5.

LEASEHOLD PROPERTY.

1st class, 6 per cent.; 2nd, 6½ per cent.; 3rd, 7 per cent. 4th, 7½ per cent.

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ADDRESS REGISTER OF ARCHITECTS.

1.—ENGLAND. 2.—IRELAND. 3. SCOTLAND. 4.—WALES. 5.—ABROAD.

† Fellows of the Royal Institution of British Architects * Associates of the Royal Institution of British Architects

This Register is compiled from the Lists of Members of the Royal Institution of British Architects and other kindred Societies throughout the kingdom, and includes other Architects whose names and addresses have been received by the Editor. The Editor will be glad to receive corrections for the next issue, and the business cards of other Architects that the List may be extended.

1—*England.*

BEDFORDSHIRE

Brown, J. R., Luton
Browne, C.,* 55, Ashburnham Road, Bedford
Goodman, A. P., The Gables, Bedford
Handley, T., Station Road, Biggleswade
Highton, G. 12, Victoria Terrace, Bedford
Jackson, T. J., Cardington Road, Bedford
Lawrence J. T., Leighton Buzzard
Miller, J. De Parys Avenue, Bedford
Pearson W. J., Market Hill, Luton
Smith, A. E., Church Street, Luton
Usher & Anthony, 9, St. Paul's Sq., Bedford
Watson, W., Wren Park Shefford
Young, H., 92, Midland Road, Bedford.

BERKSHIRE

Albury, F.W.,† 154, Friar Street, Reading
Cooper & Son, Blagrave Street, Reading
Davison, T. V. H., Windsor
Deacon, S., Bearwood, Wokingham
Flint, H., "Tidcombe," Newbury
Greenaway, J., 19, Duke Street, Reading
Morey, J. H., The Broadway, Newbury
Morris, J., 17, Friar Street, Reading
Ravenscroft, W., 6, Market Place, Reading
Shrewsbury, J., Maidenhead
Smith, C.,† 164, Friar Street, Reading
Smith, C. S.,* 164, Friar Street Reading
Tubbs, C. B., Blagrave Chambers Reading
Webb, G. W.,* 119, Castle Street, Reading

BUCKINGHAMSHIRE.

Carter, C. West Street, Great Marlow
Chambers, W. O.,† Manor House, Delaford Park, Iver
Harris, E. S.,† Wolverton Street, Mary, Stony Stratford
Lackitt, G. Virginian Cottage, Aylesbury
Nottage, W. E., Slough
Vernon, A., High Wycombe

CAMBRIDGESHIRE.

Atkinson, T. D.,* Clare Villas, Cambridge
Bays, E., Cambridge
Bowyer, W. J., Clarendon, Brooklands
Fawcett, W. M.,† Cambridge
Flatman, J., Newmarket
Holland & Son, Newmarket
Robinson, W.,† Forehill, Ely
Rowe, R. R.,† Park House Cambridge

CHESHIRE

Bird, D.,* Mayfield, Sale
Bratton, J., 59, Hamilton Square, Birkenhead
Connell, F. J., 50, Hamilton Street, Birkenhead
Crooke, E. A.,* 84, Nantwich Road, Crewe
Crowther, J. S.,† Endsleigh, Alderley Edge
Davies, J. H., 24, Newgate Street, Chester
Douglas, J., 6, Abbey Street, Chester
Ederton, W. K., 24, High Street, Northwich
Ewing, C. A., 8, St. Werburgh Street Chester
Furber, E., 3, Hightown, Crewe
Gill, G., Gilcomoor, Stalybridge
Hesketh, P.,* Ardmore House, Sale
Johnson, C. W., Whaley Bridge
Jones, J. R. & Co., 20, Hamilton Sq., Birkenhead
Lea, W., Kelsall, near Chester
Lockwood, T. M.,† 80, Foregate St. Chester
Lowndsborough, W., Duncan Street, Birkenhead
Macnamara, J., Hall Street, Altrincham
Richardson, A., 34, Hamilton Sq., Birkenhead
Rimmer, H., Crook House, Chester
Ritchie, A., Chester
Spencer, N.,* The Knoll, Fulshaw Park Wilmslow
Williams, R. & R. G., 36, Argyle St. Birkenhead
Wilson, J., The Vines, Greenway Rd., Runcorn

CORNWALL.

Andrew, T. H., Liskeard
Caldwell, O., 4, Mowab Terrace Penzance
Cheqwidden, W. L., 2, Heanton Vil., Redruth
Hicks, J., Redruth
Jenkins, W. J., Bodmin
Peter, O. B.* The Walk Launceston
Rowe, W. G., Canute Villa, Fore St., Marazion
Sansom, J., Greenbank Lane, Liskeard
Skentlebery, A. E., Lostwithiel
Trevail, S., 80 Lemon Street Truro
Trounson, J., 51 Chapel Street, Penzance
Trounson, J. W.,† 27, Clarence St., Penzance
White, H., Penzance
Wonnacott, T.,† 21, Wodehouse Terr., Falmouth

CUMBERLAND

Banks, T. L.,† 22 Lowther Street Whitehaven
Birkett, D.,† 45, Lowther Street, Carlisle
Eaglesfield, C., Senhouse Street Maryport
Ferguson, C. J.,* 50 English Street, Carlisle
Moffat, J. S., 53, Church Street, Whitehaven
Murchie, J., 29, Lowther Street, Carlisle
Oliver, G. D.,* Carlisle
Pickering & Crompton, 11, Lowther Street, Whitehaven
Scott, T. T.,* 14, Bank Street, Carlisle
Sheffield, T., High Street, Wigton
Watson, G., 18, Wordsworth Street, Penrith

DEVONSHIRE

Appleton, E.,† 1, Vaughan Parade, Torquay
Back, E. H., Dartmouth
Barrett, P. V.,* Parkview House Victoria Road, Barnstaple
Bridgman, G. S., Warwick Lodge, Paignton
Chudleigh, J., Kingsteignton Rd., Newton Abbot
Couldrey, N. G., Palace Arcade, Paignton
Cole, C., Queen Street Chambers Exeter
Commin, F. J. 7 Bedford Circus, Exeter
Crocker, J.,† 101, Queen Street, Exeter
Foster, J. B., 4, Cambridge Street, Plymouth
Fulford, R. M.,* Cathedral Yard Exeter
Gould, W. H., 6 Oxford Grove, Ilfracombe
Harbottle, E. H.,† County Chambers, Queen Street, Exeter
Harvey, J. Baring Street, Plymouth
Hayman, H.,* 28, Fort Street, Barnstaple
Hine, J.,† Lockyer Street, Plymouth
Hodge, J. L., 22, Courtenay Street, Plymouth
Jerman, J.,† 33, Paul Street, Exeter
Luff, H. G.* Manor Office, Devonport
Medland, W. C., Windy Cross, Torrington
Norman, A., 3, Buckland Terrace, Plymouth
Packham, Croote, & Stuart, 93, Paris St., Exeter
Parker, A. S.,* 5, Park Vil., Polsloe Rd., Exeter
Pethick, B. H.,* Headland Villa, Plymouth
Pinn, J. M., Exeter
[illegible] 3 Wanford Road, Exeter
Pol[illegible] 9, Bedford Circus, Exeter
[illegible] J.* 50, High Street, Exeter
Thorne, A.,† Barnstaple
Till, J. H., 58, High Street, Barnstaple
Tollit, W. M., Highlands, Totnes
Underwood, M., 10, St. Aubyn St. Devonport
Warren, E. G., Post Office Chambers, Exeter
Webb, E., Castle Street, Barnstaple
Wills, A. H., 2, Higher Belmont Rd., Exeter
Wilson, G. M., Bridge Buildings, Bideford
Yeardye, J., 108 High Street, Ilfracombe

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DERBYSHIRE.

Argyle, R., Ripley near Derby
Coulson, G. M., All Saints' Chambers, Derby
Coulthurst & Booty, 4 Albert Street, Derby
Eaton, A., Albert Street, Derby
Evans, M. R., Derwent Street, Derby
Fearn, J. W., Chesterfield
Godwards, E., New Mills, near Stockport
Haslam, G., South Street, Ilkeston
Hawke, R. G., Norfolk Square, Glossop
Hill, A. C., Full Street, Derby
Hunt, C. W.,* The Town Hall, Ilkeston
Mason, R. W. H., 31, Full Street, Derby
Mills, G. Y., Old Bank Chambs., Irongate, Derby
Nayler, J. R.,* Old Bank Chambers, Irongate, Derby
Parkin, J. & Son, Derby
Perry, H. R.,* Oak Cottage, Western Bk., Derby
Ridgeway, E. R., Longeaton
Robinson, F. J.,† Strand Chambers, Derby
Rollinson & Son, 13, Corporation St., Chesterfield
Sheldon, J., Longeaton
Simpson, J. D., Clarence Cottage, Fairfield, near Buxton
Smithson, W. G.,* Idridgehay, near Derby
Strain, J. L., Compton Chambers, Buxton
Trubshaw, C.,† Architect to the Midland Railway Company, Derby
Waite, R., Duffield, Derby
Ward & Son, Saltergate, Chesterfield

DORSETSHIRE.

Bennett, R. C., 10, Gloucester St., Weymouth
Clifton, J. E., Swanage
Crickmay & Son, Weymouth
Farrall, T., Sherborne
Fletcher, W. J.,† Wimborne
Fookes, W. W., Wareham
Maltby, F. T., Dorchester
Pearce, E., Parade, Poole
Soppitt, J., Tout Hill, Shaftesbury

DURHAM COUNTY.

Bage, J., Stockton
Caws, F., 60, Fawcett Street, Sunderland
Clark & Moscrop, Feethams, Darlington
Clapham, E. E., North End, Stockton-on-Tees
Crozier, W., Shire Hall, Durham
Donald, J. W.,* 67, King Street, South Shields
Eltringham, J. 62, John Street, Sunderland
Fletcher, G., Prince Regent St., Stockton-on-Tees
Fowler, C. H.,† Durham
Fox, W., 3, Atherton Street, Durham
Garry, J., 1, Church Street, West Hartlepool
Gradon, H. T., 40, Sadler Street, Durham
Grieves, H.,* Albany Chambers, South Shields
Hanson, J. W., Exchange Buildings, S. Shields
Henry, J., 35, North Bailey, Durham
Hoskins, G. G.† Darlington
Hudson, J., 23, Cromwell Street, Sunderland
Livesey, W., Raby Castle, Darlington
Milburn, W., 35, West Sunniside, Sunderland
Milburn, T. R.,* Roker, Sunderland
Middlemiss & Green, 26, Fawcett St., Sunderland
Morton, J. H.,† 50, King Street, South Shields
Ord, G., 16, The Avenue, Durham
Pilchett, J. P., 24, High Row, Darlington
Potts, J., 57, John Street, Sunderland
Rounthwait, J. W., Block Hill
Stout & Dockwray, Commercial Chambers, South Shields
Thompson, R. W., Bishop Auckland
Tillman, J.,† 5 Bridge Street, Sunderland
Tilman, T.,† 5, Bridge Street, Sunderland
Turnbull, C., 24, York Street, West Hartlepool
Walton-Wilson, J. W.,† Shotley Hall (Northumberland), Shotley Bridge
Weatherill, H., High St., Stockton-on-Tees

ESSEX

Baker, T. H., Walbrook House, Clacton-on-Sea
Brannon, P., Walton Naze Park, Walton-on-the Naze
Chancellor, F., Chelmsford
Dawson, C. J., Barking
Goodey, J. F., 2, Victoria Chambers, West Stockwell Street, Colchester
Harris, F. E. L.,* 3, Mayence Villas, New London Road, Chelmsford
Hooper, J. D., Woodford
Johnson, F. H., Saffron Walden
Morris, F. E., Colchester
Moull, W. A.,* Brentwood
Newman, J. T.,† Kelverton Hatch, Brentwood
Page, G. H., Trinity Chambers, Colchester
Pertwee, C.,* Claremont Villa, Chelmsford
Scargill, W., 31, North Street, Colchester
Start, J. W., High Street, Colchester
Tooley, H.,* 2, Belmont Villas, Albert Road, Buckhurst Hill
Winter, J., Dane Lodge, Epping

GLOUCESTERSHIRE

Barnes, E. W.,† Guildhall Chambers, Bristol
Beddoe, J. C., 26, Nicholas Street, Bristol
Bernard, W. L.,† 39, Broad Street, Bristol
Bevan, J., 4, Unity Street, Bristol
Bond, F. B., 1, Claremont Place, Clifton
Classold, W., London Road, Stroud
Cox & Humphries, 1, Promenade, Cheltenham
Crisp, H.,† 31a, Clare Street, Bristol
Dawber, E. G.,* Bourton-on-the-Hill, Moreton-in the Marsh
Edwards, E. H., 5, Clare Street, Bristol
Falconer, G. L., All Saints' Courts, Bristol
Fisher, W. H. C., 6, Rowcroft, Stroud
Froud, J. M., 39, Broad Street, Bristol
Gingell, W. B., Alliance Chambs., Corn St., Bristol
Gough, W. N., 24, Bridge Street, Bristol
Gray, W. H., Tewkesbury
Gruggen, R. M.,* 13, Park Place, Clifton, Bristol
Harding, H. W., 51, Prince Street, Bristol
Harford, A. 30, Broad Street, Bristol
Hawkins, D., 1, North Place, Cheltenham
Hirst, H. C. M.,* 30, Broad Street, Bristol
Jacques, W., 52, Worcester Street, Gloucester
Jones, H. J., Wellington Chambers, 12, Bridge Street, Bristol
Jones, W. E.,† 51, Princes Street, Bristol
Judge, F.,* 90, Richmond Rd., Montpelier, Bristol
La Trobe, J. H.,* 6, Clare Street, Bristol
Lysaght, T. R., Cumnor Ho., Cotham Pk., Bristol
Medland & Son, Gloucester
Middleton, Protheroe & Phillott, 1, Bedford Buildings, Cheltenham
Moire, J. P., 9, Berkeley Street, Gloucester
Moncrieff, J. C.,† Athenæum Chambers, 26, Nicholas Street, Bristol
Munro, P. & Son, St. Stephen's Chambers, Baldwin Street, Bristol
Nicholson, T., Guildhall Chrs., Broad St., Bristol
Oatley, G. H., 27, Clare Street, Bristol
Pinckney, A. B.,* 2, Clarence St., Cheltenham
Pope & Paul, 3, Unity Street, Bristol
Price, W. H., Greville Road, Bedminster
Roberts, T. P.,* Firfield Villas, 273, Gloucester Road, Bishopstow, Bristol
Rowley, C. A., 51, Prince Street, Bristol
Sadler, G. W., 467, High Street, Cheltenham
Skinner, W. S., 51, Prince Street, Bristol
Stucké, W. H.,* 1, Park View, Tivoli, Cheltenham
Thomas, J., Athenæum Chambers, Nicholas Street, Bristol
Thomas, G., Athenæum Chambers, Nicholas Street, Bristol
Trew, J. W. & Sons, 22, Broad Street, Bristol
Villar, J., 1a, Cambray, Cheltenham
Voisey, V. W.,† 45, Park Street, Bristol
Waller, F. S.,† 4, College Green, Gloucester
Waller, F. W.,† 18, College Green, Gloucester
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Wood, J., 35, Park Street, Bristol
Wood, J. F.,* 9, Westbury Park, Durdham Down, Bristol
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Miles, C., Observer Chambers, Bournemouth
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Pinder, R. G.,† Avenue Chambers, Bournemouth
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Riley, W. E.,* Portsmouth Dockyard
Robinson, J., County Hall, Winchester
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Waterworth, F. W., Newport, Isle of Wight
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Nicholson, T.,† Hereford
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Harrison, S. C., Hemel Hempstead
Huckvale, W., Tring
Lavender, P., Watford
Lovejoy, C. R., George Street, Watford, Herts.
Pritchett, G. E.,† Oak Hall, Bishops Stortford
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Shillito, H. T., Hatfield
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Barwick, W. S., 2, Sussex Villas, Broadstairs
Bensted, H.,† 86, Week Street, Maidstone
Betts, E. W., Medway Street, Chatham
Bower, W. G.,† 10, Marine Terrace, Margate
Butterfield, M.,* Brackley House, South Park, Sevenoaks
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Cook, J. O., 12, Eleanor Road, Woolwich
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[illegible] J. 12, St. George's Crescent, Liverpool
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[illegible] J.† 24 Brazennose Street, Manchester
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Holden, J. P., 64 Cross Street, Manchester
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Johnson, R. T., 6, Darlington Street, Wigan
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Kirby, E.,† 5, Cook Street, Liverpool
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Littlewood, W. H.,† 29, Brown St., Manchester
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Owens, H., 3, Crosshall Street, Liverpool
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Paley, E. G.,† Lancaster
Paley, H. A.,* Dallas Place, Lancaster
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Sellers & Hamilton, Union Chambers, Bury
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Shelmerdine, H., Exchange Station, Liverpool
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Smith, F., 6, Brown Street, Manchester
Smith, S. T.,† 110, King Street, Manchester
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Williams, T. G., 3, Cable Street, Liverpool
Williams, L. O., 70, Victoria Street, Liverpool
Williams, S. T., 85, Market Street, Bacup
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Woodhouse & Morley, St. George's Rd., Bolton
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Worthington, T.,† Lombard Chambers, 46, Brown Street, Manchester
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Goddard, H. L.,* 6, Market Street, Leicester
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Harrison, S.,* 7, Martin's East, Leicester
Hind, T., Grey Friars Street, Leicester
Hodson, G., Loughborough
Jackson, W.,† Loseby Lane, Leicester
Keites, W. E., Friar Lane, Leicester
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Watson, A. D.,* Craven House, Princess Road, Leicester

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Fowler, J.,† Louth
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Goddard & Son, Lincoln
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Mortimer, W., Odd Fellows' Hall, Lincoln
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Thropp, J., Old Corn Exchange, Lincoln
Ward, T. J., Stamford
Watkins, W.,† Leyland House, Lincoln
Wood, A. C.,* 6, Watergate, Grantham

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Aitchison, G.,† 150, Harley Street, W.
Alder, J. S., 156, Palmerston Buildings, Old Broad Street, E.C.
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Alexander, H. A., 72, Cannon Street, E.C.
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Barfield, F. H., 56, Lancaster Rd., Stroud Green
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Barker, J. T.,† 8, Furnival's Inn, W.C.
Barlow, A. J.,* 5, Bedford Row, W.C.
Barns-Williams T.,† 11, Clement's Lane, E.C.
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Bartleet, W. G.,† 2, New Broad Street, E.C.
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Batterbury, T.,* 29, John St., Bedford Row, W.C.
Bateman, R., 14, Upper Berkeley Street, W.
Beale, R. J.,* Palace Chambers, 9, Bridge St., Westminster, S.W.
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Beesley, R., Northumberland Chambers, Northumberland Avenue
Beeston, F.,† 30, Lincoln's Inn Field, W.C.
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Brandreth A. B., 21, Finsbury Pavement, E.C.
Brede A. R.,* Bedford Row House Great James [illegible]
Brereton F. S.† Fenwick Buildings, 292, High Holborn W.C.
[illegible] St. Within, E.C.
[illegible] C.
[illegible] Devonshire Sq., Bishopsgate
[illegible] * 27, Dingwell Road, Croydon
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[illegible] * 9, Fenchurch Street, E.C.
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[illegible]e, F., 2, Pancras Lane, E.C.
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Harrison, E. J., 70 and 72, Chancery Lane, W.C.
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Harrison, W. H.,† 59 & 60, Chancery Lane, W.C.
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Howell, F. G.,* 3 Lancaster Place Strand, W.C.
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Hudson, J.,* The Burrows, Hendon, N.W.
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Hunter, C. V.,* 15, Grummant Rd., Peckham Rd
Hunter, P.,* Provost Lodge, Provost Road N.W.
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Jackson, [illegible] Heat
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Johnson, J.,* 35, King Street, Cheapside, E.C
Johnson, J., Chandos Chambers, 23, Buckingham Street, Adelphi, W.C
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Walker, R.,† 10, St. Martin's Place, Trafalgar Square, W.C.
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Warren, E. P.,* 5, Staple Inn, W.C.
Warren, F.,* The Grove, Clapham Road, S.W.
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Waterhouse, P.,* 20, New Cavendish Street, W.
Waters, W. R., 145, Dulwich Rd., Herne Hill, S.E.
Watney, D., 4a, Frederick Place, Old Jewry, E.C.
Watson, R.,* 21, King William St., Strand, W.C.
Watson, T. H.,† 9, Nottingham Place, W.
Watt, J.,* Temple Chrs., Temple Avenue, E.C.
Waymouth, G.,† 23, Moorgate Street, E.C.
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Webb, P., Gray's Inn
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Weir, J.,† 9, Victoria Chambers, Westminster
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Wells, W. R.,* 10, Farrant Avenue, Wood Green
West, W., 35, Lavender Sweep, Lavender Hill
Weymouth, R. H.,* 33, Alfred Road, Acton, W.
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Wheelhouse, G.,* 10, Brunswick Square, W.C.
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Wilson, S. B., 10, Basinghall Street, E.C.
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Woollard, B.,* 18, Alderney Road, E.
Woollett, W., 27, Lombard Street, E.C.
Wornum, R. S.,† 26, Bedford Square, W.C.
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Wylson, O. C.,† 15, King William St., Strand, W.C.
Yates, T. C.,* 10, Brunswick Square, W.C.
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Young, S.,* 5, Henrietta St., Covent Garden, W.C.
Young, W., 4, Lancaster Place, Strand, W.C.
Young, Son & Johnson, 35, King St., Cheapside
Youngs, L.,* 2, Brook Green, W.

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Hill, W., Chepstow
Goodman, H. A., 33, High Street, Newport
Johnson, A., Abergavenny
Lawrence, B., Austin Friars' Chambers, Newport
Philip, A. J., 3, Ombersley Rd., Stow Hill, Newport
Prothero, H., Albion Chambers, Newport
Rees & Sons, Corn Exchange Chambers, Newport
Rosser, G., 20, High Street, Newport

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Coman, E. J., Market Place, King's Lynn
Green, H. J.,* Bank Pl., Castle Meadow, Norwich
[illegible], A. S.,* 10, Regent Street, Gt. Yarmouth
Lacey, [illegible] 6, Upper King Street, Norwich
M[illegible]er, H., Guildhall, Norwich
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Charlewood, H. C.,* 42, Grainger Street, Newcastle-on-Tyne
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Hope, W., 35, Saville Street, North Shields
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Lish, J. J., 9, Grainger Street W., Newcastle
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Newcombe, W. L.,† 89, Pilgrim Street, Newcastle-on-Tyne
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Oswald, S., St. Nicholas Buildings, Newcastle
Oswald, J., St. Nicholas Buildings, Newcastle
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Robertson & Sons, Alnwick
Sh[illegible] [illegible] † 2, Market St., Newcastle-on-Tyne
Sm[illegible] C.,* 32, Salters Road, Gosforth, Newcastle-on-Tyne
Stevenson, J., Tweed Street, Berwick-on-Tweed
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Mills, W. E.,* 13, High Street, Banbury
Moore, H. W.,† 6, Beaumont Street, Oxford
Mowbray, A. W. M.,† Ascholme, Cowley St. John, Oxford
Timms, J., 44, South Parade, Banbury

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Ibberson, H. G.,* Culmington Manor, nr. Craven Arms, Salop
Oswell, A. E. L.,* Dana Chambers, Castle Gates, Shrewsbury
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Roberts, W. J., Lowestoft
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Martin, H. R., Essendene Road, Caterham
Moon, H., High Street Godalming
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Perratt, E. T.,† Mulgrave Road, Sutton
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Shearburn W., Dorking
Stapley, S. West Street Farnham
Street, T. J.,* Sutton Park, Guildford
Watson, P. H.,* Meadow Bank, Farnham
Welch, C., London Street, Chertsey
Welman, S., Godalming
Welman & Street Godalming
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Buckwell T. H. 33 New Road, Brighton
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Clayton, C. E., Brighton
Coster J., Selwyn Road Eastbourne
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Ford, A., 11, Silverdale Road, Eastbourne
Fowler & Hill, 57 London Road, St. Leonards
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Hill, R. A.,† 37, Pevensey Road, St. Leonards-on-Sea
Holloway, F. W., Haywards Heath
Humphreys, F. H.,* 4, Trinity St., Hastings
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Jones, D., 19 St. James Road, Hastings
Kerwood, J., St. John Street, Chichester
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Lainson, T. J.,* 5, St. John's Terrace, West Brighton
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Nash, W. H., 42, Ship Street, Brighton
Notley, F. C.,* 17, Cromwell Rd., West Brighton
Patching & Jordan, Worthing
Reeves, H. A. W.,* East Grinstead
Riches & Gray, Devonshire Terrace, Bexhill-on Sea
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Smith, A., Aston House, Bognor
Spurrell, H.,† Hartfield Rise, Eastbourne
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Tomes, C. W., Bedford Grove, Eastbourne
Tree, P. H.,* 59, London Road, St. Leonards-on Sea
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Ward, H.,* 8, Bank Buildings, Hastings

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Hawkes, J. H., 18, Temple Row, Birmingham
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Jones, J. A.,* Woodlands, Doe Bank, Sutton-Coldfield, near Birmingham
Lait, T. S., 78, Plymouth Place, Leamington
Lea & Sons, 19, Cannon Street, Birmingham
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Mansell T. H., 2 Newhall Street, Birmingham
Martin W., 106, Colmore Row, Birmingham
Meggett, J., 104 Camden Street, Birmingham
Moseley, G. T.,† Lochinvar, Brinswood Avenue, Leamington
Moore, F. H.,* Northgate Street Warwick
Naden, T., 14, Temple Street, Birmingham
Newey, C. J., 35, Paradise Street, Birmingham
Newton, T. W. F., 121 Colmore Row, Bir'ham.
Nicol, J. C.,* 6, Augusta Road, Acocks Green, near Birmingham
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Osborne, J. F.,* 95, Colmore Row, Birmingham
Perry, T. G., 43, Temple Street, Birmingham
Phipson, A. B.,† 119, Colmore Row, Bir'ham
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Quick, H., 28, Hertford Street, Coventry
Radcliffe & Watson, 109, Colmore Row, Bir'ham
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Thompson, W., Evesham Road, Stratford-on-Avon
Tomlinson, W., 28, Union Street, Coventry
Trespass, F. P., Warwick
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Whitly, T. W., Bank Chambers, Coventry
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Cox, E., Highgate, Kendal
Fleming, J., Ambleside
Shaw, S., Highgate, Kendal
Stalker, J., 31, Stramongate, Kendal
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5—*Abroad.*

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Durrell, G. W.,* 12, Tattersall's Chambers, corner of Hunter and Castlereagh Streets Sydney
Ellerker, W. H.,† 14, Market Buildings, Collins Street West, Melbourne
Ellis, J. S. E.,† Equitable Chambers, corner of Pitt and Park Streets, Sydney
England, R. W.,* Inglis's Buildings, Christchurch, New Zealand
Fox, H. H.,* Burmah
Gostling, D.† Bombay
Gratton F. M.,* 17 The Bund, Shanghai
Gwyther, W. B.* Public Works Department, Bengal Secretariat, Calcutta
Hamilton, R. M.,* 18, Latimer Square, Christchurch, New Zealand
Hancock W. St. J.,† 3, Beaconsfield Arcade, Hong Kong
Hammond, W. F.,* South British Chambers, Auckland, New Zealand
Henry, T.,* Modern Chambers, Collins Street West, Melbourne
Herepath, P.,† Auckland, New Zealand
Inskip, G. C.,† 5, Collins Street East, Melbourne
Jennings, N. E.,† Town Hall, Melbourne
Jervis, W. H.*
Johnson, A. E.,† 15, Market Bdgs., Melbourne
Kerr, P.,† Dept. of Public Works Melbourne
Maddison, J. C.,† Hereford Street, Christchurch, New Zealand
Mansfield G. A.,† 121, Pitt Street, Sydney
Marks, F. W.,* San Remo, Roslyn Street, Elizabeth Bay, Sydney
Martin, E. J.† Calcutta
Moorhouse, F.,* Queen Anne Chambers, Bond Street Sydney
Murzban, M. C.,† Government Offices, Bombay
Norman, A. C. A.,* Selangar Straits Settlements
Oakden, P.,* 2, St. James's Buildings, William Street, Melbourne
Oakeshott, G. J.,* 133 Victoria Street, Darlinghurst, Sydney
Palmer C.* Hong Kong
Pope G. F.* Perth, Western Australia
Ross D.† 23, Temple Court, King St., Sydney
Rowe, T.† Vickery's Chambers Pitt St., Sydney
Salway, W.,† 45, Swanston Street, Melbourne
Seager, S. H.,* Christchurch, New Zealand
Sills, F.,* Calcutta
Smart, A. C.,* Kew, Melbourne
Stanley, F. D. G.,† Brisbane
Stevens, F. W.† c/o J. Griffiths, Esq School of Art Residence, Bombay
Strouts, F.,* Wakefield Road, Christchurch, New Zealand
Sulman, J.,† 375, George Street, Sydney
Tayler, L.,† 57, Chancery Lane, Melbourne
Tomalin, H. F.,* Public Works Dept., Colombo
Toxward, C. J.,† Wellington, New Zealand
Turnbull, T.† Wellington, New Zealand
Vernon, W. L.,† Bank Chambers, 259, George Street, Sydney
Wade, H. G.,* 25, Queen Street, Auckland, New Zealand
Walker, A. C.,* 20, Barrack St., Hobart Tasmania
Wardell, W. W.† Bank Chambers, 259 George Street, Sydney
Watson, G. W.,* Department of Public Works, Melbourne
Wilson, A. B.,* Queen St., Brisbane, Queensland

CANADA.

Gambier-Bousfield R. W.,* 61, Adelaide Street, Toronto, Ontario
Taylor, A. T.,† 43, St. Francois-Xavier Street, Montreal

FRANCE

Hewetson, E.† 45, Rue de Fréjus Cannes

MALTA

Galizia, E. L.,† 64, Strada Vescovo, Piazzi Celsi, Valetta

SOUTH AMERICA

Conder, R. T.,* F.C.C.A. Rosario de Santa Fé Argentine Republic
Curry, J. H.,* c/o Messrs. Treacher, Tenac & Co., Calle Libertad, entre C. Puerto y C. Santa Fé. Rosario de Santa Fé, Argentine Republic
Martin, W. J.,† 43, Matucana, Santiago, Chili

UNITED STATES OF AMERICA.

Bare, H. B.,† c/o S. D. Button, Esq., 430 Walnut Street Philadelphia
Barry, C. E.,* The Arno Hotel Washington
Beaumont, G.,* 115, Dearborn Street, Chicago
Coxhead, E. A.,* 75, North Spring Street, Los Angeles, California
Gillespie, A.,* Savannah, Georgia
Parkes, T. W.,* Box 1,008, Pasadena Los Angeles California
Philips, J. B.,* Pioneer Buildings, 1 509, Larimer Street, Denver, Colorado
Wills, H. W.,* c/o A. Page Brown, Esq., 57, Broadway, New York

WEST INDIES.

Bridges E. J.,* R. E. Office, Upper Park Camp, Jamaica

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

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Address Register of Clients and Others.

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BUILDERS NOMINATED BY ARCHITECTS.

The Editor will be glad to receive the names and addresses of other leading Builders who should be included in this Register. All communications are regarded as confidential, and no guarantee is given respecting the position or qualification of any firm nominated.

About 1,100 Architects have furnished the names in this Register, and many Builders have received from two to twenty-five nominations each.

1. ENGLAND—(a) London and Suburbs. (b) Provinces. | 2. IRELAND. | 3. SCOTLAND. 4. WALES.

1.—*ENGLAND.*

(a) *LONDON AND SUBURBS.*

Adamson & Sons, Turnham Green, Chiswick S.W.
Adcock, W. J.
Aird, J., & Sons, Belvedere Road, S.E.
Aldin & Plater, 39a Queen's Gate Gardens, S.W.
Allen J., & Sons, Palmerston Works, Kilburn
Anley, J. 27a, Dalston Lane, E.
Ansell, C., 14, Edward Street, York Road, Lambeth, S.E.
Aries & Son, Atlas Works, Upper Richmond Road, Putney
Ashby, Bros., 6, Union Court, Old Broad Street, E.C.
Ashby & Horner, 8, Aldgate, E.
Atherton & Latta, 71, Chrisp St., Poplar, E.
Balaam Bros., Shenton Street, Old Kent Road, S.E.
Bartholomew & Co., 11, Portman Street, Portman Square, W.
Battley, R. G., 21, Old Kent Road
Bayne & Co., 44, Mulbank St., Westminster
Beale, G., Cambridge Heath Bridge, Hackney, E.
Beattie, R. P. 191, Victoria Street
Belham, Messrs., 155, Buckingham Palace Road, S.W.
Bird, S. G., 28a, Upper George Street, W.
Boyce, 2, Metal Exchange Buildings, E.C.
Boyce, T., Eagle Works, Hackney
Braid, G., Manor Street, Chelsea
Brass, W., & Son, 18, Silver Street (47 Old Street)
Brown, Sons, & Blomfield, 103, Cannon Street, E.C.
Bull Sons, & Co., 15 Clement's Inn Strand
Bunning & Son 3, Talfourd Place, Talfourd Road, Camberwell
Burford & Son, 35, High Street, Hampstead
Burman & Sons, De Laune Works Sharstead Street, Kennington Park, S.E.
Bush & Sons, 6a Ridgmount Street, W.
Bursill, C. J., 16, Dynham Road, Kilburn, N.W.
Bywaters, G. H. & A., 10, King Street, Covent Garden, W.
Candler & Son, 258a, Brixton Hill, S.W.
Carter, T. D., & Son, 81, Horseferry Road, Westminster S.W.
Chamberlain Bros., Hammersmith
Chappell, J. T., Lupus Street, Pimlico
Chessum & Sons, Crown Works, 15, Stean Street, Haggerston
Clark, H. L., 15, Harringay Grove, Hornsey.
Clarke and Bracey, 64, Coleman Street, E.C.
Clarke & Mannooch, 6, Great Castle St., W.
Clemmie, J., 9, Duke Street, Adelphi
Cock, E., 137, Wardour Street
Coleman, J. K., 120, High Street, Poplar E.
Colls and Sons, 53, Moorgate Street, E.C.
Conder, E., Baltic Wharf, Kingsland Rd., N.
Co-operative Builders, Limited, Burton Road, Brixton S.W.
Coulsell Bros., Bonwell Street, E.
Cox, C., Ash Grove, Mare St., Hackney, N.E.
Craske, O., 18 Montpelier Street, Brompton, S.W.
Croaker, W. & F., Great Dover Street S.E.
Crosser, A. 9, Great Sutton Street, E.C.
Cubbitt, W., & Co., 258, Grays Inn Road, W.C.
Curtiss, W. & E., 42 Curzon Street, Mayfair
Dearing, C., 61, Halliford Street
Donne H. W. Hendon
Downs, W., Hampton Street, Walworth Road S.E.
Dowsing & Sons, 13 Devonshire Terrace, Notting Hill
Dove Bros., 15, Studd Street, Islington
Drew & Cadman, 245 and 246, High Holborn, W.C.
Dunn, S. & S., 31, Brewer Street, Golden Square, W.
Ellis & Co., 40, Botolph Lane E.C.
Evans Bros., Lisford Street, Peckham
Everard, Lucas Works, Lucas Road, E.
Foster & Dicksee
Foxley F., 26, Leinster Terrace, Hyde Park
Garratt & Son Hinton Road, Loughborough Junction, S.E.
Gentry, M., 2, Wormwood Street, E.C.
Goddin, S., 43, Upper George Street
Good, W. V., 241, Camberwell Road, S.E.
Goodman, W., Hartham Works, Hartham Road Holloway N.
Gould & Brand, High St Camden Town
Green, T. L., Eagle Street, Holborn, W.C.
Green & Lee, Amhurst Road, Hackney, E.
Greenwood, J. & Co., 10, Arthur Street West, E.C.
Greenwood & Son, Maltby St., Dockhead S.E.
Gregory & Co., Clapham Junction
Grover & Co., New North Road, N.
Grover, J. & Son, Wilton Works Wilton
Hall, Beddall & Co., Waterloo Bridge, S.E.
Hansell, Harrow Station
Harper, W., 83, Jubilee Street, Mile End.
Harris & Son 216, Marylebone Road, N.W.
Harris & Wardrop 10 -14, Wallwood Street, Burdett Road, E.
Harrison & Spooner, 105, Cannon St., E.C.
Hart Bros., 16, Gt. Dover St., Boro', S.E.
Hatfield & Son, 32, King St., Golden Sq.
Haylock, T. W., 209, Ebury Street, Pimlico
Hayward & Son, 88, Newgate Street, E.C.
Head, W. B. & Son, 138, High Street, Notting Hill, W.
Hearle & Son, St George's-in-East
Hearn & Co. 26 Craven Terrace, W.
Higgs F. & H. F., Loughborough Junction S.E.
Higgs & Hill, Crown Works South Lambeth, S.W.
Hill Bros., Streatham
Hobson, J. D., 7, Duke Street, Adelphi, W.C.
Holland & Hannen, 17, Duke Street, Bloomsbury, W.C.
Holland, J., Brunswick Road, Poplar, E.
Holliday & Greenwood, Loughborough Park, S.W.
Holloway Bros., Queen's Road, Battersea
Holloway, J. 7, Lavender Terr., Lavender Hill, S.W.
Holloway, H. L., Union Works, Church Street Deptford, S.E.
Hosking G. J., Upton Lane, Forest Gate, E.
Howe, G., 41, Wigmore Street, E.C.
Hunt, J. R., St Paul's Works, Bow Com. E.
Hunt S. Burlington Road, Chiswick
Jackson & Todd, 192, Hackney Road, E.
Jerrard, S. J., 40, Loampit Vale, Lewisham, S.E.
Johnson, J. H., 785, Commercial Road, E.
Johnson, J., 138, Narrow Street, Limehouse, E.
Johnson, W., Wandsworth Common, S.W.
Kearley, C. F., Bath Place, Kensington
Kennard Bros., Lewisham, S.E.
Keyrs, Head & Co., 6, Gray Street, Manchester Square
Kilby & Gayford, 87, Worship Street, E.C.
King & Son, 3, Vauxhall Bridge Road, S.W.
Kinnimmont & Sons, 26, Chilworth Street, Paddington
Kirk & Randall, Warren Lane, Woolwich
Kynock, C., 59, High Street, Clapham
Laing & Son, Duke Street, W.C.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Lamble, S. R., 16, Rhyl St., Kentish Town
Langdale, Hallett & Co., 138, Brompton Road
Lascelles, W H, & Co 121, Bunhill Row, E C
Lathey Bros., Battersea
Lawrence & Sons, 14 & 16, Wharf Road, City Road, N.
Lea, H & E, 3 & 4, Warwick Street, Regent Street, W
Leeks & Hooker Webber Row, Blackfriars Road
Longmire & Co., 30, East Street, Manchester Square
Lorden, Trinity Road, Upper Tooting, S W.
Linn, G, 2, Mellish Street, Millwall E
Little, T., Size Yard, 22a, Whitechapel Road, E
Longmire & Co, Osnaburgh Street, Regent's Park, N W
Lucas & Son, Kensington Square
Lucas, Bros., 37, Great George Street, Westminster, S W
Macey, J. M & Sons, 268, Strand, W C
Maides & Harper, Cherry Orchard Road, Croydon
Mansfield & Son, 169, Upper Thames St., E C
Mark, F, 51, Bell St, Edgware Road, W.
Marsland, J., 1, York Street, Walworth
Martin, J, Warwick Place, Maida Vale, W
Martin, Wells & Co, 58, Buckingham Palace Road, S W
Maskell, R., 189, New North Road, N
Mattock Bros., Isledon Works, Finsbury Pk.
Maxwell Bros., 310, Brixton Road, S W.
Mitchell, W. J, Dulwich, S E
Morris & Sons Park Lane W
Morter, J, Forest Lane, Stratford
Mowlem & Co., Grosvenor Wharf, Millbank S E.
Nightingale, B E, Albert Works, Albert Embankment, S E
Nuthall, G, 101, Gray's Inn Road
Nye, T, Ealing Green
Oldrey, W & Co., Carlton Bridge, Westbourne Park, W
Outhwaite & Son, 34, Upper East Smithfield, E
Parker, G, 124, Sumner Road, Peckham
Parkinson & Son, 27, Southampton Row
Parsons, E, High Street, Wandsworth
Patman & Fotheringham, 100 & 102, Theobald's Road, W C
Patrick & Son, 28, Westminster Bridge Rd
Perkins, R., 154, Gt Titchfield Street, W.
Perrin, W, 27, Deerbrook Road, Herne Hill, S E
Perry & Co Tredegar Works, Ordell Road, Bow E
Peto Bros., 29, Gillingham St, Pimlico, S W.
Phillips, W, & Son 10, Baker Street, W
Phillipson & Son, 37 Craven Terrace, W
Potter, G, 55, Redward Road, Clapton, E
Prestige & Co, Cambridge Wharf, Grosvenor Road, Pimlico
Prior, W A., Mowbray Road, Brondesbury, N W
Pritchard, J, & Son, 161, Bishopsgate Street Without
Quartermain, W. H., 40, Old Broad Street, E C
Rhodes 1a, Gt Cumberland Place, W.
Richardson, J O, Albert Rd, Peckham, S E
Riddall J., 154, High Street, Poplar, E
Rider, T, & Son, 181, Union Street, S E
Roberts, L H. & R, 34, Rheidol Terrace, Islington, N
Robertson P S., 141, Edgware Road
Roome, E A., 112, Clarence Road, Lower Clapton, E.
Rowe, W., Lansdowne Road, Clapham
Salt, S., 40, Turner's Road, Limehouse, E
Sargeant, J. F, 6, Tudor Road, Hackney E.
Sawyer, J. W. 97, Clapham Park Road
Scott, A., 22, South Molton Street, W
Scrivener & Co, 8, Fitzroy Road, Regent's Park, N W
Scurrah W. A., 22 Gower Place W.C.
Selby, T & H, 103, Mare St, Hackney N.E.
Sharpe G, 71, Malmesbury Road, Bow E
Shaw G, 20 King Edward Street, E C.
Shaw, G, 8, Wigmore Street W
Shepherd, W., 101, Bermondsey New Road
Shurmur, W., Prospect House, Lower Clapton, E
Simpson, J, & Son, 48, Paddington St., S W.
Slaughter & Son, 10 Sloane Street S W.
Smith & Co 39, South Street, Grosvenor Square, W.
Smith E. J, Rydal Road Streatham, S.W.
Smith W., 69, Church Street, Camberwell
Somerford, H, & Son, 138, Manor Street, Clapham S W
Spencer & Co, 32, Commercial Road, S
Spicer, J, 48, Norwood Rd., Dulwich, S
Stimson & Co, 78, Brompton Road, S.W.
Staines & Son 61, Gt Eastern Street, E C
Starkie, Gardner & Co, Albert Embankment, S E
Steer, A., Marlborough Mansions, Victoria Street
Stephens, H G., Little Heath, Charlton, S E
Stevens, Barstow & Co, 195, Stewart's Road, Wandsworth
Stevens, T., 45, South Molton Street
Tarrant, F, 20 & 22, Sayer Street, S.E
Taten & Sons, Gloucester Road, W.
Tavener & Son, 8, St. John's Wood Terrace, N W.
Tennant, Isaac, Willesden, N W.
Thurmer, W., Riverside Works, Upper Clapton
Titmas & Sons, Grafton Street East, Tottenham Court Road
Timson, A., 114, Teriot St., Bromley E
Tinson, E., 6, Shaftesbury Terrace, Kensington, W.
Toms, E., Gloucester Works, Wellington St
Treasure and Son, 75, Gladstone Avenue, Noel Park, Wood Green
Triggs, E, The Chase, Clapham, S.W.
Trollope, G. & Sons, Belgrave Works, 77, Grosvenor Road, S W
Turnbull & Sons, 8, Northumberland Alley, Fenchurch Street, E C
Turtle & Appleton, 141, St John's Hill, Wandsworth, S.W.
Tyerman, J, 220, Walworth Road, S E
Vernall & Griffiths 13, Albany St., N.W.
Wall, C, Ashburnham Works, Lot's Road, S.W.
Wall Bros, Carlton Works, Carlton Road, Kentish Town, N.W
Walker, J, Crown Works, Gough Street, Poplar, E.
Ward & Lamble, 2, Hornsey Street, Holloway Road, N.
Watson, Bros., 5 & 6, Charlotte Street, Portland Place, W
Weir, W, 58, South Audley Street, W
Wells M., & Co, Acre Wharf, Belvedere Road, Lambeth
Wells & Son, 49, Red Lion Street, Holborn
Wells, B., 2, Riley Street, Bermondsey
Willett, W, South Kensington
Williams, G S, & Sons, Richmond Street, Thornhill Square, Islington, N
Williams, J 6, Harrington Square, N W.
Wilkes, H. J. & Co., 109, Buckingham Palace Road, S.W.
Wilkinson E, 139, Church St, Paddington
Winthrop & Sons, 103, Paul St., Finsbury
Wood, F & F. J, 64, Cleveland Street, Mile End, E.
Woodward & Co, 13, Wilson Street, Finsbury, E C

NAMES AND ADDRESSES OF ADDITIONAL BUILDERS IN LONDON AND SUBURBS.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

(b) *PROVINCES.*

BEDFORDSHIRE.

BEDFORD.

Corby, J & Son, Tavistock Street
Coleman, T. H, 37, Foster Hill Road
Foster, S., Kempston near Bedford
Freshwater & Sons, Castle Lane
Haynes, W., Priory Street
Harrison, G., Rutland Road
Laughton, T., Midland Road
Spencer, T., Ashburnham Road
Wharton, J, Cardington Road
White, J. P., Hassett Street

BIGGLESWADE

Daulby Bros., Hitchin Street
Twelvetrees, E., Stratton Street

LEIGHTON BUZZARD.

Cook, D, Ashwell Street
Cook, J. & Son
Edwards, H., Eggington
Garside, G, Hockliffe Street
Tirrell, T., Linslade

LUTON.

Dunham, W. G., Guildford Street
Dunham, W. & Son, Langley Street
Ford, R., Boyle Street
Neville Bros., Castle Street
Parkins, D, High Town Road
Pryer, G, Cardiff Grove
Smart G., Guildford Street
Wright, C., Hibbert Street

POTTON.

Peters & Rainsford

SHEFFORD.

Wheatley, G.

WOBURN.

Gregory, H.

BERKSHIRE.

ASCOT.

Watson, W.

ARBORFIELD.

Garratt, A

CLEWER.

Green, W, Bell Terrace

CROWTHORNE.

Spear & King

FARINGDON.

Richins, J.

HUNGERFORD.

Hoskings, H.

MAIDENHEAD.

Silver & Son
Woodbridge, W.

NEWBURY.

Elliott, S, Albert Steam Works

READING.

Bottrill, J. & Son, Kings Road
Collier & Catley, The Butts
East, S., Zinzan Street
Higgs, H. F. & Sons, Queen's Road
Lewis, J. & G., Castle Street
Searle, G., King's Road
Simonds, W H., South Street
Strong Bros. St Mary's Butts
Wheeler Bros., Caversham Road
Whiting, T F., The Grove
Winter & Fitt, London Road

STREATLEY.

Smallbone, W.

SUNNINGDALE.

Norris, J & Sons

WINDSOR.

Akery, F, Dagmar Road
Hann
Hollis, J. L., Victoria Street
Kelly, E. W., Alma Road
Pither, G., Temple Road
Reavell, W P., Peascod Street
Willis, J., Frances Road

WANTAGE.

Wheeler, J.

WINKFIELD.

Searle, E.

WOKINGHAM.

Binnie, A., Station Road

BUCKINGHAMSHIRE.

AMERSHAM.

Darlington, High Street

AYLESBURY.

Ball & Mayne, Buckingham Road
Cooper, W
Green, W., Walton Street
Green, G., Old Wagon Yard Saw Mills
Grist, S., Station Street
Webster & Cannon, Buckingham Street

BUCKINGHAM.

Marshall, J.
Tibbetts, J. K.

CHESHAM.

Boughton, W., Red Lion Street
Mead, A., Berkhamstead Road

DATCHET.

Pearce, J H.

ETON.

Goddard, W & Son, High Street

GREAT MARLOW.

Carter, J S., Chapel Street
Lovell, Y J, High Street
Walker, A., Oxford Road

NEWPORT PAGNELL.

Wilford, B.

STONY STRATFORD.

Hailey, J.
Walker, W., Wolverton St. Mary

SLOUGH.

Crowhurst, Uxbridge Road
Deverill, High Street

HIGH WYCOMBE.

Flint & Maddeford, Easton Street
Gibson, G H., Oxford Road
Herring, R., 58, Easton Street
Hunt, C H, Station Works
Lacey, J Oxford Road
Loosley, W. R., 121 & 122, Oxford Street
Nash & Sons, Temple End
Pierce, G. C., Hughenden Road
Pierce, W. E, Hughenden Road
Steevens, J, Crendon Street

WEST WYCOMBE.

Harris, H, Bantlers End

CAMBRIDGESHIRE.

CAMBRIDGE.

Attack, B., King Street
Bell, W. & Sons, Castle Street
Sindall, W., Mill Lane
Rattee & Kett, Station Road
Redding & Son, Tennis Court Road
Seymour & Sons, St. Andrew's Street
Saint, W., Mill Road
Thoday, F. & Son, Hills Road
Turner, H, Emmanuel Road
Willmott & Sons, Mill Road

ELM.

Wilkinson, J. W

ELY.

Holmes, T.
Morriss, G, West End

GOREFIELD, near WISBECH.

Hipwell, S.

NEWMARKET.

Blyth, R., Park Lane
Hunt, R, Park Lane
Linzell, H. J., Park Lane
Simpson & Son, Exning Road

SOHAM.

Cowell, J & Son
Hook & Tebbitt

UPWELL, near WISBECH.

Elworthy, C.

WISBECH.

Farrow, H, Victoria Road
Girling Bros, Elm Road
Hotson, J T., The Lamb Inn
Rands & Son, Elm Road
Syddell, G., 101, Norwich Road

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

CHESHIRE.

ALTRINCHAM.

Douglas, J. H., Hale Road
Hamilton, J., Hale Road
Leadlar, H., Stamford Street
Lambert, W., Hale Road
Stone, M., Greenwood Street

ALDERLEY EDGE.

Massey, I. & Sons, Alderley Edge

ASHTON, near CHESTER.

Shellcrop, T.

BARROW.

Davies, T., Barrow, near Chester.

BEBINGTON.

Leatham, E., Bebington Road, New Ferry

BIRKENHEAD.

Arthur, D., Duke Street
Bleakley, A. & Sons, 43, Claughton Road
Curwell, T. W., Whitford Road
Davies, R., 424, Borough Road
Davison, J. W., Oxton
Forde, W. H., Claughton Road
Harkness & Son, Beckwith Street
Hughes, H. H., Hamilton Lane
Legge, E. & Son, Grange Road
Morrin, I., 10, Wilbraham Street
Ritchie, R., Grange Road, West
Shaw, J. G., 11, Priory Street
Snape, G., 4, Trinity Street
Thomas, J., William Street, Oxton
Walker, J. W., Hamilton Lane

BOWDON.

Hamilton, J., Hall Road
Lambert, W., Hall Road
Ormson, H., Stamford Road
Pennington, J., Stamford Road

CHESTER

Andrews, W., Queen Street, Grosvenor Road
Brown, T., Tower Wharf, Canal Side
Dutton, W., Park Street
Forester, G., Boughton
Freeman, W. W., George Street
Hughes, T., Cow Lane Bridge
Jones, J., Christleton
Mayers, J., Canal Side
Morris, G., King Street
Parker, Bros., Handbridge, Chester
Parrott, W., Egerton Street
Vernon, W., Upper Northgate Street

CREWE.

Cotterill, A. P., Nantwich Road
Lea, T., Beech Street
Miclewright & Wright, John Street

DODLESTON, near CHESTER.

Edwards

DUKINFIELD.

Gibson, J.

ECCLESTON, near CHESTER.

Parker Bros.

HALE.

Fox, A. F., Spring Road
Simpson, J., Spring Road

HARTFORD, near NORTHWICH.

Beckett, R.

HOYLAKE

Smith Bros.

HYDE, near MANCHESTER.

Swain, J., Russell Street Iron Works
Robinson, S. & Son

KELSALL, near CHESTER

Crank, A. C.
Fleet, H.
Rathbone, S.
Roberts, S
White, G. & H.

LITTON, STOCKPORT.

Hill, A.

NANTWICH.

Latham, F.

NESTON

Burkey, W., Little Neston Village

NORTHWICH.

Leicester, T., Witton Street
Molyneux, W., Witton Street

PULFORD, near CHESTER.

Edwards, P.

ROCK FERRY.

Richards, J., 57, Grove Road

RUNCORN.

Farrell, W. & Sons, South Bank
Kirkham, J., Greenway Road
White, H., Stanley Villas
Wilson, J., Greenway Meadows

SANDBACH.

Stringer, J.

STALYBRIDGE.

Garside, Barns & Co., Knowl Street
Grayson, J., Knowl Street
Lockwood & Son, Castle Hall Saw Mills
Saxon Bros., Mottram Road
Shaw, T. G., Acres Lane
Storrs, W., Sons & Co., Limited, Aqueduct Saw Mills

STOCKPORT.

Brown, W. H. & H. C., Wellington Road, South
Broadhurst, J., Shaw Heath
Briggs, Lancashire Hill
Lomas, H., Mile End

TARPORLEY, near CHESTER.

Reece Bros.

TAWIN, near CHESTER.

Langford, T.

TIMPERLEY.

Cross & Bell, Stockport Road

TRANMERE

George, W., 7, Fountain Street

WEST KIRBY.

Getley, T., 4, Acacia Grove

WHALEY BRIDGE.

Collier, J. & Sons
Drinkwater, D.
Oakes, F
Proctor, J., Junr.

WHITLEY, near NORTHWICH.

Houghton, J.

WILMSLOW.

Coates, J. K., Manchester Road

CORNWALL.

ALBASTON, GUNNISLAKE.

Rosekilly, J.

BODMIN

Buscombe, W. H., Fore Street
Grose, R., Town End
Roscorla & Son, Fore Street
Shelley, N., Castle Street

BUDE.

Crutchett, J., Bay Tree, Stratton

CAMBORNE.

Dellbridge, A., Tehidy Road
Mills & Son, Trelowarren Street
Nettle, R. D., Chapel Street
Williams, E.

CARNBREA.

Roberts, Jno., R.S.O.

CHACEWATER

Moyle, Messrs.

FALMOUTH.

Kelway, J.
Olver, R. S., & Sons, Green Bank
Skinner, A., Swanpool Street

HAYLE.

Richards, J.

HELSTON.

Eva, O.
Eva, J.
Winn, W. J., Parkhouse Villa

LAUNCESTON.

Langman, T.

LANLWERY.

Rouse, F. W., Puddle, Lanlwery, Lostwithiel

LISKEARD.

Gill, T. J.
Godfrey, J., Dean Street
Hicks, T. C.
Lang, T. & Sons
Trehane, S., Fore Street

LOSTWITHIEL.

Bassett, J., Parade
Brown, H. T., North Street

MARAZION.

Miners, G.
Rowe, W. G., Canute Villa, Fore Street

MOUSEHOLE.

Rowe, J.
Tregenza, J.

NEWLYN, Near PENZANCE.

James, S
White, J.

PENRYN.

Powell, G. G., Commercial Road

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

PENZANCE.

Carne, H., Mowab Place
Hill, R., Redannick
Houtson, John and Thomas, East Street
Inch, W., St. James Terrace
Nicholas S., Belgravia Street
Perkins & Caldwell, Victoria Square
Trounson, W. H., Tolver Road
Trounson, J., 51, Chapel Street

PRAZE, CAMBORNE.

Carah & Edwards

REDRUTH.

Carkeek, Arthur
Carkeek, Alfred
Chegwidden, S., West End
Gray, W. H.
Hodge, J.
Head, S.
Nicholls, W., West End
Nicholls, S J., West End
Tamblyn, W E.
Willoughby, T.

SANCREED, Near PENZANCE.

Hosken, J., Drift

ST. AUSTELL.

Faul, J., Bodmin Road
Smith, T. J., 32, Fore Street

ST. BURYAN, Near RYOMER.

Sugg, J

ST. IVES.

Toy, R., Bellair Terrace

ST. JUST, Near PENZANCE.

Marks, W.
Roberts, R. H.

TRURO.

Clemens, M., High Cross,
Farley J, St Austell Street
Julian J, 1, Lemon Quay
Tippett, W. J, Navy Arms, Fairmantle Street
Welsh, W. H, Bodmin Street

TYWARDREATH, PAR STATION.

Mitchell, J., Hill House

WADEBRIDGE.

Williams, T.

CUMBERLAND.

CARLISLE.

Armstrong, W., Ferguson's Lane
Baty, J. & W, Upperby
Batey, W., Crescent
Beaty Bros., Devonshire Street
Beaty, J., Aglionby Street
Bell, J., 11, Sheffield Street
Black, G, Lorne Street (Carpenter and Joiner)
Court, W., Court Street, (Carpenter and Joiner)
Creighton, T., Chapel Street
Davidson, M. H., Corporation Road
Hill, G, Aglionby Street
Johnstone Bros., Denton Crescent, Milbourne Street
Laing, J. & W, Newcastle Street
Lattimer, Viaduct
Little, R., Norfolk Road
Metcalfe, J., 84, London Road
Mullan, J., 58, London Road

CLEATOR MOOR, via CARNFORTH.

Pearson, R. & D., Jack Trees Road

DISTINGTON.

Harrison, J., Main Street
Hartley, J., Main Street

EGREMONT.

Smith, J., via Carnforth

EAMONT BRIDGE

Wilkinson, J.

HARRINGTON.

Simon, J., Quay
Killip, H., Church Road

HESKET, Near CARLISLE.

Armstrong, I.

MARYPORT.

Kendal, J., Wood Street
Lee, P., Lawson Street
Mackenzie, A., North Street
Marlow, J. H., North Quay
Mandle, T., South Quay
Smith & Marshall, Kirkby Street
Whillans & Sons, Netherton

MILLOM.

Bradley, W., via Carnforth

PENRITH.

Bell, J. & T. E., Brunswick Road
Brown, J., Arthur Street
Dixon, G., Elm Terrace
Dixon, J., (Plumber, &c.) Sandgate.
Grisenthwaite, W., Lowther Street
Hope, J., Executors of, Graham Street
Jackson, J., Plumber, &c., Sandgate
Richardson, J. & Son, Brunswick Road
Richardson, J., Brunswick Road
Scott, J. & W., Plumber, &c., Corney Place

PLUMPTON, Near PENRITH.

Lowthian, T, Plumpton

WETHERAL, Near CARLISLE.

Milburn, J.

WHITEHAVEN.

Atkinson, D., 10, Catherine Street
Cousins, R., Coach Road.
Glaister, J. & R., Church Street
Kitchin, H., Corkicle
McGill, A, School House Lane
Young, J., Scotch Street

WORKINGTON.

Hodgson, R. & H.

DEVONSHIRE.

ASHBURTON.

Stevens, H.

BARNSTAPLE.

Barwick, T., Fort Street (Mason)
Burgess & Karslake, Vicarage Lawn
Cooke, W., Bear Street (Carpenter and Joiner)
Garland, Bros., Maudlin Street
Garland W., Boutport Street
Hancock, J, Pilton
Hancock., G, Joy Street (Mason, &c.)
Parminter, J., Ashleigh Road
Rew & Abbot, Barnstaple
Sillifant, H, 40, Fort Street (Carpenter)
Webber, G., Vicarage Lawn (Mason &c.)

BIDEFORD

Cock & Lamerton, Church Walk
Ellis, E, Mill Street
Gent, W. E., Chingswell Street

BUDLEIGH, EAST.

Palmer, W. J, Budleigh, Salterton

CREDITON.

Berry, W. B.
Dart, W.

DARTMOUTH.

Henley, E. J, Market Place
Maunder, F, New Road
Pillar & Sons, Newcomen Road
Row, R., Market Place

DAWLISH.

Friend, S, High Street
Lamacraft, J. H. G., Park Road

DEVONPORT.

Greenslade & Son, Chapel Street
Jenkin & Son, Marlborough Street
Littleton, W., 44, Garden Street, Morice Town
Piper, C. T. & W., 1 & 2, Stuart Terrace, Stoke

EXETER.

Brealey, W., 163, Cowick St, St Thomas
Chorley, J. C., 89, Summerland Street
Crabb & Greenslade, 67, Magdalen Road.
Diggines, G. Jun., 8, Friars Gate
Diggines & Son, Exeter Quay
Drake, S., Magdalen Road
Force, S., 15, Sidwell Street
Gibbard, J R., Old Tiverton Road
Gibson, W., 6, Bonhay Road
Gooding, W., 8, Sidney Road
Gould, H, Monmouth Street, Topsham
Grainger, W., Clyst Hydon, near Exeter
Ham & Passmore, Sidwell Street
Harding, H., 12, North Bridge Terrace
Hems, H., Longbrook Street
Hitt, H., The Rink, Magdalen Road
Kenshole, J., 2, Church Street, Heavitree
Luscombe, E. & Son, 55, Sidwell Street
Mills, H., 44, Paris Street
Mills, E. J., 33, Bartholomew Street, E.
Moass, S. & Sons, 18, James Street
Phillips, H., 100, Paris Street
Popman, J., 60, Paris Street
Perian, J., Topsham
Pratt, N., St. Mary Clyst
Scadding, H. & Sons, 29, Magdalen Street
Setter Bros., 8, Okehampton Place, St Thomas
Sharland, J., 24, Bartholomew Street, W.
Stephens J. G & Son, 116, Fore Street
Stocker, J., 66, Cowick Street, St Thomas
Stile, G., 20, Summerland Street
Steer Bros, Clyst St. George
Tree & Bolley, Longbrook Street
Vicary J. P. & Son, 57, Bartholomew Street
Westcott, J., 27, Lower North Street
Woodman, W., Bartholomew Street, E
Williams, F., Ottery St. Mary, near Exeter

EXMOUTH.

Bradbeer & Grace, Manchester Street
Cooper & Son, Beacon Place
Hayman, A., Back Street
Hooper, H. H., Clinton Cottage
Hooper & Stooke, Raleigh Terrace
Long, H, Colleton Terrace
Perry & Son, Albion Street

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

HONITON.

Berry W. B.,
Turner & Skinner

ILFRACOMBE.

Batment, W.
Britton & Pickett
Brooks, Ilfracome
Collins, R.
Combear, W.
Dendle W.
Gammon & Tallyn
Labbett, J, Regent Place
Parkin, T.
Slee, A.
Upton, T.

KINGSWEAR.

Short James
Short, John

NEWTON ABBOT.

Barrow, F., Courtenay Park
Bearne, L., Highcreek Street
Dobell Bros., East Street
Mills, H., Queen Street
Parker Bros., Courtenay Street
Stacey, F, Lower St. Paul's Road
Stevens, C, Courtenay Street.

NORTHAM.

Chapple, L.
Cook, T.
Hoare & Glover, Cleavehouses

PAIGNTON.

Bridgeman, M., Garfield Works, Garfield Terrace
Drew, C. & R. E., Steam Works, Dartmouth Road
King & Son, Winner Street
Rabbich, H., Victoria House
Webber, H., Dartmouth Road

PLYMOUTH.

Berry, J. P., George Lane
Blackwell, J H., Cambridge Lane, W.
Blowey, P., 2, Nottingham Place
Coles, A. N. 70, The Octogan
Debnam, A. R., Mount Pleasant Building Yard
Finch, J., 11, York Street
Foot I, 10, Notte Street
Ham, W., Elm Road
Ham, J., 13, Portland Square
Hoskin, G., Lower Compton, near Plymouth
Jinkin, W. T., 3, Kirkby Place
Lapthorn & Goad, Tracy Place
Lethbridge, A R. & Son, 53 & 54, Tracy St.
Marshall, J, Sutton Road
Marshall, A., Hoe Gate Street
May, T, 8, Cobourg Lane
Palk & Partridge, Cobourg Street
Pearn & Sons, G'lwell Street
Pethic Bros., Norley Yard
Piper, F. J, Portland Place
Reed, J., Eagle Works Coxside
Roberts, S., Ham Street
Shellabear, G., 23, Washington Terrace, Mutley
Taylor & Son, T., 6, St Mary Street, Stonehouse
Taylor, J., 15, Battery Street, Stonehouse
Tozer & Son, Cromwell Road
Trevena, W., 14, Hastings Street
Wilson, W. E., 11, Kensington Terrace Mutley

TIVERTON.

Barrons, W, St. Peter Street

TORQUAY.

Bovey, E. P., Torwood Works, Torwood
Chubb, J., Elstow Works, Ellacombe
Goss, W. A., Ellacombe Works
McKellar, J., Warren Road
Pack Bros., Torre
Smerdon, J, Warren Road
Wyatt, S. D, Ellacombe
Yeo, R., Warren Road

TOTNES.

Brooke & Ash, Bridgetown
Reeves & Selwood, Fore Street
Tollit, W. F, Seymour Villa

TORRINGTON (GREAT).

Grant, H., Potacre Street
Labbett, H., Castle Street (Borough).

DERBYSHIRE.

ASHBORNE.

Woolley, T., Hulland Ward

ASHOVER.

Beardow, J. T
Hopkinson, R.

BAKEWELL.

Norman, F

BARLOW.

Margereson, I.

BASLOW.

Hibbert, S.

BOLSOVER.

Haynes, G.

BRAMPTON

Marsden, C.
Needham, W., Storrs Lane

BUXTON.

Bagshaw, G J., Market Street (Joiner)
Gladwin, J., Salisbury House
Gill, J.
Holmes, J., Eastbourne Terrace
Oakes, A. & E., Compton Road (Masons)
Salt, J., Devonshire Saw Mills

CHESTERFIELD.

Ellis, W., Lordsmill Street
Heathcote, J, Lordsmill Street
Margereson, I., Fairfield Road
Rollinson, C., Salter Gate
Slack G., Station Road
Wright, Amy, Mrs., Beetwell Street
Wright, J, Beetwell Street

CHAPEL EN-LE-FRITH.

Goddard, G, Chorley
Hadfield, G., Milton
Lowe J.
Simpson, J., Chorley

CLAY CROSS.

Tinkler E., Thanet Street

DERBY.

Brown, A, Great Northern Road
Dickenson, J, Ashbourne Road
Eaton, W., Summer Hill
Ford & Co., Talbot Street
Smith, A, 7 Gordon Road, Mill Hill
Slater, F, Burton Road
Spencer, A. W., Traffic Street
Walker & Slater, Old Uttoxeter Road
Wood, E., Park Street
Wood, J., Liversage Street
Walkerdine, W., Bridge Street

DUFFIELD.

Hingley, A.

ECKINGTON

Fidler, J., 8, Chesterfield Road

GLOSSOP.

Bowden, W. H., Howard Street
Charlesworth, J., Shrewsbury Street
Garside, C, Surrey Street
Goddard, W, Whitfield

HAYFIELD.

Mason, E

ILKESTON.

Goddard, F., East Street
Harper, J., Orchard Street
Ireson, W., East Street
Manners, J., South Street
Shaw, F, Rutland Street
Wade, J, Bath Street

LANGWITH.

Collingham, J.

LONG EATON

Brown, J., Waverley Street
Dight & Rose
Perks, F, Bridge Street
Taylor, C.
Youngman, G., South Street

MATLOCK

Askew, W. B., Matlock Bridge
Bridge, A. B., Matlock Cliff
Statham W.
Wildgoose, L., Matlock Bank

NEW MILLS, near STOCKPORT.

Drinkwater, D, Whaley Bridge
Hudson, J. & Sons, Low Leighton
Hudson J., Birch Vale
Stafford, T., Whittle

PILSLEY.

Hall, W.

RIPLEY, near DERBY.

Clark, W.
Clower, W.
Cresswell, J, Green Hillocks
Fletcher, J., Greenwich
Harris & Norman, Marehay

STANLEY.

Brown, R. F, Stanley Common

STAVELEY.

Stone, S.

SOUTH NORMANTON

Weston, R., Saw Mills

WIRKSWORTH.

Killer, J.
Knowles & Son, Brassington
Walker, J & Sons, Bolehill
Waterfield, J.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

DORSETSHIRE.

BLANDFORD.

Green, A. H.

DORCHESTER.

Davis & Son
Guy & Son
Tilley, L & Son
Tilley, W. & Son
Wellman, T
Wellspring, H.

EVERSHOT.

Conway, H.

POOLE.

Gray, W. H., Market Street
Hitching, D, Parkstone
Morris, W, Parkstone Road
Rigler, T, Longfleet
Wheeler, W., Longfleet

SWANAGE

White, H. W., Mount Pleasant

SHAFTESBURY.

Brickell, F., Enmore Green
Dean, R
Hiscock & Dean
Oborne, T

THORNFORD, SHERBORNE.

Andrews, J.

WAREHAM.

Beer, J., East Street
Churchill, C, South Street
Hobbs, G., East Street

WEYMOUTH.

Bartlett, J. A., Franchise Street
Brown Bros., Great George Street
Clarke, A., Commercial Road
Jones, J Commercial Road
Purchase, J., Belvedere Cottage
Whettam, J., Grange Road

DURHAM.

BIRTLEY.

Burnet & Son

BISHOP AUCKLAND.

Blackett, W. & R., Station View
Vickers J, Princess Street

BLAYDON-ON-TYNE.

Atkinson, H.

CROOK.

Lister, G., & Son

DARLINGTON

Hope, J., Chesnut Street (Plasterer)
Kitching R., Chesnut House
Marshall, Geo, Wooler Street
Metcalfe, T, Tubwell Row (Painter)
McKenzie Bros., Duke Street
Renshaw & Walker, Westmoreland Street
Robinson, J, Leadenhall Street
Smith, R., Skinnergate (Plumber)
Snaith, R T, Four Riggs (Joiner)
Wandless, J, Kinross Street (Slater)

DIPTON.

Mordue, T., Dipton, Lintz Green

DURHAM

Bell & Sanderson, Coxhoe, Co Durham
Caldcleugh, F., Elvet, Waterside
Coates, T., Claypath
Forster, W., Croxdale
Gibson, F, North Road
Gradon, G & Son, North Road
Kell, J., North Road
Lowes J & Son, Gilesgate
Moody, Thos., Gilesgate (Wood Carver)
Mowbray Bros, Crossgate (Wood Carvers)
Sanderson, R., Gilesgate
Taylor, E. & J. R., 2, The Avenue
Walton, W., Hawthorn Terrace
Wardropper, C., Gilesgate
Whaley, J., Gilesgate

GATESHEAD.

Haswell & Waugh, Askew Road
Lamb, T. & R, Grahamsley Street
Pringle, A., St Edmunds Road
Tyrie & Graham, Redheugh Road

HARTLEPOOL (EAST).

Burn, J., Durham Street

HARTLEPOOL, WEST.

Bulmer J. Mitchell Street
Carter, J, Thornton Street
Cockburn & Son, Ouston Street
Curry, H
Howe, J, Grange Road
Moody & Burdon, Freeman Street
Suggitt & Son, Archer Street
Watt, R., Mitchell Street

KIRKPATRICK-BY-DALBEATTIE.

Grierson, R.
Roxburgh A & P.

LINTZ GREEN.

Routledge, J., Annfield Plain

STOCKTON-ON-TEES.

Atkinson, W. C., Wood Street
Atterby, J, Brigt Street
Clephan, E. E., Norton Road
Cooke, J., 54 Lawson Street
Craggs & Benson, Hume Street
Davison, J, Spring Street
Fletcher, G., Prince Regent Street
Harland, J., Bowesfield Lane
Henderson, W., South Stockton
Johnson & Hanby, South Stockton
Jones, H, Highfield
Leng, J. T, South Stockton
Perks, J., Wellington Street
Sanderson J, Skinners Street
Smith, W., South Stockton
Thompson, J, Mill Street
Thompson, G., Station Terrace
Watson, W., Rutland Terrace

SUNDERLAND.

Armitage, J., Southwick
Cooper, W. B, Salisbury Street
Hodgson, G., 26, Green Street
Hudson, R, Jun, St Mark's Road
Howarth M., Ennerdale
Hildrey, G. & F., Grange Road
Humble, C. T., 12, Crowtree Road
Hudson, R, St. Paul's Terrace
Huntley, J., Athol Road
Ranken, D. & J, Stockton Road
Shaftoe, T P., Borough Road
Scott W. & Son, Durham Road
Sharp, T, Black Tatham Street
Swan G & Co, Roker Avenue, Monkwearmouth
Thompson J & Sons, Borough Road
Young, J, Newcastle Road

SEATON CAREW

Nodding & Elder, 1, Durham Street

SOUTH SHIELDS.

Christie, W. Commercial Road
Dobson, F. B., Chichester Road
Gilfillan, J. & W, John Williamson Street
Goodwin R. & Son Orange Street
Kennedy, W., 1, Edgar Street
Kilburn Bros., Erskine Road
Lawes, D., Mile End Road
Lumsden, T, Albert Road, Jarrow
Marshall, A. & P, Claypath Lane
Moore, J, Alice Street
Nichol, J. C, Chichester Road
Scott W., Wesloe Lane
Sheriff, S., South Frederick Street
Summerbell, R., Tyne Docks
Taylor, J., Albert Road, Jarrow
Wylam, W. & T, Ellison Street
Wilson, W, Regent Street
Young, J., Tyne Docks

WASHINGTON.

Hunter, T.

WHITBURN.

Allison, R.

ESSEX.

BARKING.

Argent, D., North Street
Rist, G., Wakering Road
Smith, J., East Street

BRAINTREE.

Brown, J., & Son
Letch, W.

CLACTON-ON-SEA.

Demaid, N., Church Road

CHELMSFORD

Choat & Son
Johnson, F., New Street
Moss, J
Potter H., Duke Street
Saltmarsh, G., Moulsham

CHIPPING HILL, near WITHAM.

Smith, J.

COGGESHALL, near KELVEDON.

Gardner & Son

COLCHESTER.

Bowles, G. Magdalen Street
Chambers, W A., Magdalen Street
Dobson, G., Butt Road
Diss, A., West Bergholt
Dupont, F, North Hill
Everett & Son, Hythe Hill
Grimes, J., Northgate Works
Orfeur, C. E., North Street
Scott, C J, North Hill
Shead, W., Berechurch
Ward, T. J, St. John Street

DANBURY, near CHELMSFORD.

Baker, W.

DEDHAM.

Saunders & Son

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

EPPING

Whiffin, J., Theydon Garnon

GRAYS.

Carter, H. J.

HUTTON, near BRENTWOOD.

Cross, J.

ILFORD.

Barnes, C., High Street
Watson, W., High Street

NEWPORT.

Staines, J. H.

ROMFORD.

Booth, H., High Street

SAFFRON WALDEN.

Bell W. & Sons

SOUTHEND-ON-SEA.

Darbe & Son
Woodhams, F. E.

UPMINSTER.

Wilson, T. L.

WITHAM.

Gamble, J.

WALTHAM ABBEY.

Bentley, J., & Sons

WOODHAM WALTER, nr CHELMSFORD.

Gozzett, H.

GLOUCESTERSHIRE.

BRISTOL.

Bastow, J., Byron Place, Clifton
Brock, H. & Son, St. Philip's Marsh
Brock & Bruce, Albert Road, St. Phillips
Beaven, A. J., Dean Lane, Bedminster
Beachem & Balmont, Temple Backs
Chorley & Sons, Bishopston
Church, W., Wapping
Cowlin, W. H. & Son, Stratton Street
Cowling & Son, Milk Street
Davis, J. E., 27, Hepburn Road, Stoke Croft
Durnford, J. & Son, Bedminster
Eastabrook & Sons, Pennywell Road
Edkins, W., & Sons, Queen Charlotte Street
Finnimore, J. S., Park Row
Forse, H. A., Charles Street
Hayes, C. A., Bedminster
Harding & Vowles, Great George Street, Park Street
Hatherley, E. T., Stokes Croft
Humphreys, G., Woodborough St., Stapleton Road
James, J., Stapleton Road
Krauss, A., 40, Colston Street
Lewis & Sons, Regent Place, Clifton
Lewis, T. R., Clifton Vale, Hotwells
Norris, E. C., Bath Bridge
Perkins, J., Lower Redland Road
Perrott, J., Wellington Road, St. Paul's
Robertson S., Pennywell Road
Rossiter, H. J., Southville
Stephens, Bastow & Co., Cheltenham Buildings
Turner, S., Beaumont Street Stapleton Road
Walters, E., Montpelier
Wilkins, J. & Son, 137, Ashley Road
Wilkins, R. & Son, Surrey Street, St Pauls

BRINSCOMBE, near STROUD.

Wall & Hook

CHALFORD, near STROUD.

Drew Bros.

CHELTENHAM.

Baker, J., Winchcomb Street
Billings, A. C. & S., 54, Winchcomb Street
Brown, H. D., St Luke's Road
Channon, C. H., Montpelier Street
Channon, W. C., Chester Walk
Collins, T., Grosvenor Street
Eager, J., 10, Henrietta Street
Hunt, W. T. & R. A., Carlton Street
Price & Parker, 4, Pitville Street
Rainger, C., Bath Road
Rainger & Wilson, Bath Place
Scamell, W., St. George's Place

GLOUCESTER

Clutterbuck, J., George Street
Cullis, F., Park Road
Dolman & Ponting, Ryecroft Street
Estcourt, A., Barton Street
Jones, W., Worcester Street
Jones, D. & Co., Cromwell Street
King, A., Barton Street
Peters, G., Southgate Street
Sims, J., London Road
Williams, W., Falkner Street
Wibby, W.
Wingate & Sons, Station Road

KEMPSFORD, FAIRFORD S.O.

Bowley, J.,

PRESTBURY, near CHELTENHAM.

Davis Bros.

STROUD.

English & Sons, London Road
Greenslade, J., Bowbridge, near Stroud.
Lewis, J., Spillmans, near Stroud
Pitt, T. G., Ebley

TEWKESBURY.

Collins, T.

YATE, near CHIPPING SODBURY.

Hudson, J. B.

HAMPSHIRE.

ALDERSHOT.

Cranston
Garland, W.
Seabright
Wells, M. & Co.

ALTON.

Dyer, J. H. & E., High Street

ANDOVER.

Annett, H. & Son
Beale, F.
Grace, C., Goodworth, Clatford
Spratt, A., Wherwell

BASINGSTOKE.

Garrant, R., Potters Lane
Harris, [illegible] Road
[illegible]
[illegible]
[illegible] W., Cross Street
[illegible] Wote Street
Sims, G., London Street
Tigwell, J., Wote Street

BITTERNE.

Chafen, A., Bitterne Park
Witt, J., Inkerman Road

BOURNEMOUTH.

Brown, S., Phœnix Works
Glass, T., Norwich Road
George & Harding, Lansdowne Road
Hoare, F. & Son, Jubilee Works
Hoare, W., Victoria Works, Holdenhurst Road
Jenkins & Sons, Wolverton Terrace
Jones, W., Westbourne
Lucas, J. W., Poole Road
Minty, S., Beaulieu Works
Miller & Sons, Lansdowne
McWilliam & Son, Wharf Road
Nethercoate, J. A., Holdenhurst Road
Rolls, G. H., The Mart, Holdenhurst Road
Walden, F., Headington Works, Southcote Road

COWES, I.W.

Ball, J. & Son
Cleaden, J., Jun.
Thomas & Son

FAREHAM.

Plummer, J.

FRESHWATER, I.W.

Denham, T., Norton Green

GOSPORT.

Cantle, J. A., Joseph Street, Newtown
Croad, J., High Street
Dash, C. M., Clarence Square
Hill, W. & Co., Bury Works, Anns Hill Lane, Forton
Lane, W. E., Forton Road, Forton
Lear, C., Alverstoke
Lowe & Son, Gosport
Lowe, R., The Green
Rapley, W. & Son, Albert Street, Forton
Walton, W. H., Forton Road, Forton

HAVANT.

Pinker, Bros.

NEWPORT, I.W.

Bevis, J., High Street
Jenkins, T., 49, Upper St James Street
Way, W. C., Carisbrooke Road

PORTSMOUTH.

Bevis, G., St Thomas Street
Bevis, E., Queen Street, Landport
Beech, G., Fraser Road, Southsea
Biggs, W. & J., Albert Road, Southsea
Bramble Bros., Portland Street, Portsea
Burbridge, G., Somers Road, Southsea
Clark, H. & Sons, Newcombe Road, Fratton Road
Clark, J., Canal Walk, Fratton
Collings, J., Commercial Road, Landport
Corke, J. H., Somers Road, Southsea
Croad, J., Union Street, Portsea
Crockerell, J., Milford Road, Southsea
Dugan, J. Prince George's Street, Portsea
Dye, C., London Road, North End
Evans, H., Brougham Road, Southsea
Hoff, G., Bradford Road Southsea
Hall, T. P., 7 & 9, Bedford Road, Southsea
Jones, H., 3 Broad Street, Somers Road, Southsea
Learmouth, W., Emsworth Road, North End
Lewis, D. W., Victoria Road, N., Southsea

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Light, W. R. & C., 445, Commercial Road, Landport
Matthews, Bros., Hay Street, Portsea
Morey, C., Collingwood Road, W., Southsea
Pittis, G., Fawcett Road, Southsea
Quick, T. W., Victoria Road, N., Southsea
Roberts, R. H., 81, Vincent Street
Saxey, S., Somers Road, Southsea
Scammell & Dowdell, 174, Wingfield Street
Ward, W., Coburg Street, Fratton
White, F., 341, Commercial Road, Landport
White, J., 2, All Saints Street, Landport
White, J. & Sons, Commercial Road, Landport

RYDE, I.W.

Barton, I., High Street
Langdon, Messrs., Player Street.
Newman, W., Anglesey Street

SANDOWN, I.W.

Colenutt, F., Broad Lane
Hayden, J., Carter Road
Jolliffe, W., Pell Street
Young, A., Pell Street

SHANKLIN, I.W.

Cooper, F., Grange Road
Hayles, G., Atherly Road
White, J., Wilton Road

SOUTHAMPTON.

Bull, J. & Sons, Northam
Bull & Co., Belvedere Road
Button, L. & Son, Bevois Town
Brinton & Bone, Marsh Lane
Chapman, W. H., Woolston
Dyer, J. & Sons, Bevois Hill
Franklin, W., Osborne Road, St. Deny's
Holt, J., Waterloo Road
Hinton, J., Weston Grove Road, Woolston
Jukes, T. J., 101, Park Road, Freemantle
Morgan, Isted, & Morgan, Onslow Bridge Works, Newtown
Nichols, J., Nicholstown
Sanders, H. J., Northam
Stephens & Son
Stevens, H. & Co., Millbank Street
Udall, J. J., Carlton Place

VENTNOR, I.W.

Daish, A., Hope Cottage, Belgrave Road
Harvey, J., Primrose Bank, Grove Road
Ingram, H. & Sons, Albert Street
Jolliffe & Sons, 5, Mill Street
Newnham, J., 142, High Street
Sims, A., Trinity View
Walder, W. H., Madeira Road

WINCHESTER

Carter & Son, Eastgage Street
Coles, W., Kingsgate Street
Fielder, J. & Son, Westgate
Marsh, G., Fulflood
Shearman, W., 12, Southgate Street

WINCKFIELD.

Poole & Son, Hartley Row

HEREFORDSHIRE.

HEREFORD.

Andrews, R. Ledbury Road
Bowers, W. & Co., Bath Street
Hodges, B., Edgar Street
Lewis, W. P. & Co., Commercial Road
Matthews, R., Victoria Street
Rowberry, J., Workhouse Lane

KINGTON.

Morgan, R.

LEOMINISTER.

Edwards, C., Mile Street

HERTFORDSHIRE.

BALDOCK.

Redhouse, S., Stotfold

BENGEO.

Green, R.,

BERKHAMSTEAD.

Young & Horne

BISHOP'S STORTFORD.

Cannon, F., Hockerill
Champness, H., London Road
Glasscock, H., Rye Street
Glasscock & Son, Causeway

BROMYARD.

Lewis, R., Sherford Street
Rouse Bros.

BUSHEY.

Field, J., Park Road
Pratt, B., High Street

HARPENDEN.

Dawson, T.

HEMEL HEMPSTEAD.

Horn, E., 35, Marlowes
Nash, W., Marlowes
Payne, J. Bury Mill End
Sear, W., 7, Marlowes
Smith, S. C., 72, Picotts End

HERTFORD.

Crouch, G., Talbot Street
Ekins & Son, St. Andrew's Street
Ginn, R. & Son, St. Andrew's Street
Gray, W., Hertford Street
Norris, H., Railway Street
Rayment, J. J. & Son, Maidenhead Street
Scales, A., Hertingfordbury Road

HITCHIN.

Foster, M., Bancroft
French, C., Wimbush Lane
Foster (Mrs.) & Sons, Park Street
Jeeves, W., Queen Street
Joyner, F., Biggin Lane
Seymour, W., Back Street
Stapleton, G., Radcliffe Road
Wilmot, T. & Sons, Station Road

HODDESDON.

Nicholls, J. W.

PUC.. .RIDGE, near WARE.

Cates, F.

RICKMANSWORTH.

Brown, Harefield
Darvill, J., Chipperfield

SAWBRIDGEWORTH.

Burton & Sons

TRING

Honour, J. & Son, Akeman Street

WATFORD.

Allen, C., 239, High Street
Allen, H., 42, High Street
Andrews & Sons, High Street
Clifford & Gough, Estcourt Road
Dove, H. M., St. Albans Road
Hailey, C. A., King Street
Judge & Eames, High Street
Longman, C., Smith Street
Lovejoy, C., Smith Street (Stone Mason)
Neal, W. B., Aldenham Road
Tearle, W., Queen's Road (Stone Mason)
Turner & Co., Limited, St. Alban's Road
Waterman, G. & J., High Street

WARE

Copsey, J., Musley
Goodman, S., High Street
Hitch, F., Amwell End
Huggins, H., London Road
Hunt, T., Baldock Street

HUNTINGDONSHIRE.

BRAMPTON.

Allen, M.

BUCKDEN.

Page & Co.

FENTSTANTON, ST. IVES.

Bunting, A.

HUNTINGDON.

Howard, W.
Thackray & Son

ST. IVES.

Saint, J. & Sons

ST. NEOTS.

Osborne, W., Church Street
Wade, W.

KENT.

ASHFORD.

Baker, W., Park Road
Dryland, E.
Giles, Burden & Giles
Joy, E.
Knock, H.
Steddy & Co.
Wood, J.

BECKENHAM

Graham, T., Church Hill
Kydd, R., Cedars Road
Kick, G. J., Bromley Road
Moss, A., High Street
Syme & Duncan, Blakeney Road

BELVEDERE.

Stickland & Chandler, Bexley Road

BEXLEY HEATH.

Butler, R. J., Main Road
Ellingham, J., Main Road

BIRCHINGTON.

Cousins, G., Station Road

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

BIRLING

Bishop, W. J., Birling Road

BOUGHTON, near MAIDSTONE.

Wood & Son

BROADSTAIRS.

May, J. T., 31, Albion Street

BROMLEY.

Arnaud & Sons, High Street
Crossley, T., Tweedy Road
Payne, D., High Street
Sanford, H., Streamlet House

NEW BROMPTON.

Snow, W. C., Canterbury Street

CANTERBURY.

Gaskin, J C., Castle Street
Gentry, W. & Son, Broad Street
Terry, T. & Sons, St. Peter's Street
Wilson, H. B., 22, St. George's Place
Wiltshire, J., Stour Street

CHATHAM.

Edser & Bockham, Railway Street
Seagers, E. D, Brook
Skinner, C. E., Railway Street

DARTFORD.

Gumbrell, W, High Street
Kemp, G, West Hill
Sharp & Sons, Hythe Street

DEAL.

Denne, G. H. & Son, Queen Street

DOVER.

Adcock, W. J., Ladywell
Austin & Lewis, Maison Dieu Road
Stiff & Son

ERITH.

Miles, G., The Avenue

FAVERSHAM.

Davis, A & Sons, Union Street
Fuller, E & Sons, Stone Street.
Hogben H., Park Road
Histed, W, Park Road
Ingleton, A. S., Herne Bay
Judges, W., Boughton
Pettman, G. H., Birchington-on-Sea
Ratcliff, Bros., Belvedere Road
Shrubsole, L., Abbey Street
Welby, C. Herne Bay
Whiting, R. M. & H., Ospringe.

FARNINGHAM.

Everest & Marchant, Farningham

FOLKESTONE.

Baker, D., Tontine Street
Brooks, W., Guildhall Street
Dunk, W., Tontine Street
Moody, H., Brockman Road
Petts & Son, Dover Road
Prebble, G., Grace Hill
Webster, R., Claremont Road

GRAVESEND.

Archer, W. H., The Grove
Gould, J., Parrock Street
Multon & Wallis, 2 and 3 Wrotham Road
Rayner, A. C., St. James Road
Tuffee, W., The Grove
Wallace, W. and E., Pelham Road

LEE.

Havell, 167, High Road

LITTLEBOURNE.

Belsey, H. J., Littlebourne, Wingham

LOOSE, near MAIDSTONE.

Wilkins, E.

MAIDSTONE.

Avard, R, Tonbridge Road
Candler, G., Frant Road
Clements, J., Mill Street
Elmore, T, King Street
Prayer, A. N. & Co., West Borough
Vaughan, E., Tonbridge Road
Wallis, G. E. & Sons, County Road

MALLING (EAST.)

Allchin, W. H.
Yeomans, W.

MALLING (WEST.)

Hodges, G.

MARGATE.

Adams, G. T., Addington Road
Brown & Sons, Clifton Street
Bushell & Sons, King Street
Gore, Bros., Addington Road
Paramor & Sons, Eaton Road
Woodward, W H., Zion Place

MILTON, near SITTINGBOURNE.

Beaumont, W. J.

PENSHURST.

Constable, H

PLUMSTEAD.

Messrs. Lonergan
Proctor, E., High Street, Plumstead

RAMSGATE.

Bowman, H, Cannon Road
Forwalk, J. H., Ellen Villa, The Elms
Martin, W. W., Beechwood, Dane Park Estate

ROCHESTER.

Bathurst, H., Five Bell Lane
Callund, T. & Son, Eastgate
Darby & Son, Rochester
Foord & Sons, Acorn Wharf
Gates, G, Frindsbury
Naylor, J. G. & Son, Maidstone Road

SANDWICH.

Brisley, Ash, near Sandwich

SITTINGBOURNE.

Bishop, E., Albany Street
Pavey, G., West Street
Seager, L., Borden.

SNODLAND.

Langridge

ST. LAWRENCE.

Port, W H., Ellington

ST. PETER'S.

Barwick, J. E., Hopwills Villas, St. Peter's.

SWANSCOMBE.

Hammersham and Russell, High Street

STROOD.

West, J., South Weston Road.
West, G., Canal Road
West, Bros., Cuxton Road

TUNBRIDGE WELLS.

Beale, L., Frant Road
Jarvis, J., Waldron House, Grove Hill Road
Mansfield, G. & Son, Pelham House, Parade
Penn, G. & F., Pembury, near Tunbridge Wells.
Soper and Jones, Mount Pleasant Road
Strange & Son, 34, London Road

WATERINGBURY.

Dray, J. & Son

WALMER.

Denne, W. & T., Upper Walmer, Deal

WESTGATE.

Lockwood & Co., The Grove

WHITSTABLE.

Amos & Foad, Church Road
Cornelius, T

WOOLWICH.

Carter, G, Hill Street
Fenn, A., 58, Wood Street
Kirk & Randall, Warren Lane

WOODCHURCH, near ASHFORD.

Bourne, W. H.

LANCASHIRE.

ACCRINGTON.

Critchley, J. H., Newark Street
Cunliffe & Son, Water Street
Dixon, W. H., Avenue Parade
Nuttall, R., Malt Street
Parker, W, Manchester Road
Ramsbottom, Hannibal, Devonshire Street
Waddington, H, Blackburn Road

AIGBURTH, near LIVERPOOL.

Peers, J., 12, Victoria Road

ASHTON, near NEWTON-LE-WILLOWS.

Holmes, Allen, Turner Street
Pinnington & Watson
Robinson, John, Catherine Street

ATHERTON.

Grundy, Thos, Atherton Sawing Mill

BARROW-IN-FURNESS.

Gradwell, W., The Exors of

BIRKDALE (see Southport.)

BACUP, MANCHESTER.

Brearley, J, Goosehill
Hargreaves, J & Co., Burnley Road
Hargreaves J Y., Burnley Road
Sutcliffe, J. W, Newchurch Road
Wilkinson, J. Smelt, Rochdale Road
Williams, R., Lee Road

BLACKBURN.

Abbott, Benjamin, Fish Lane
Airey, A., Hanson Street (Plasterer)
Arkwright, W. & T., Canterbury Street (Mason)
Brooks, Geo. Wm., Baron's Yard, Darwen Street

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Calvert, J., St. Andrew's Street
Chadburn, J., Salford (Plumber)
Cheetham, C., Darwen Street (Plumber)
Charnley, J. & Bros., Livesey
Charnley, Thomas, Queen's Road
Cook, W. and Sons, Carr Street (Plasterers)
Craven, Thomas, Randal Street
Dyson J. & Son Canterbury Street (Flaggers and Slaters)
Eastwood, R. T., Regent Street (Flagger and Slater)
Edmundson, Wm., Bolton Road Saw Mills
Fecitt, J. Weir Street
Gillibrand, W. & J., Wensley Street (Bricksetters)
Harrison, Birley Street Saw Mills
Hilton, Witton (Bricksetter)
Higson, Thos. & Sons, Byrom Street
Hindle, Christopher, Weir Street (Mason)
Ibbotson, R., Mill Lane
Kenyon & Moulding, Montague Street
Lewis, E. & Son, Great Harwood
Marshall & Dent, Limbrick
Parker, James, Peter Street, Daisyfield
Pickup, H., Northgate (Painter)
Stones, Wm., & Sons Darwen Street
Walmsley Bros., Whalley New Road (Masons)

BLACKPOOL.

Cardwell, Jas., Bros., Church Street
Dean, W., Alexandra Road, Southshore
Dewhurst, Jas., Braithwaite Street
Eaves, Wm. & Co., Northshore Mills
Fisher, Jas. Blundell, Moore Street, Southshore
Fisher, J. B., Princess Street
Fielding, Jos. & Sons, Green Hill
Nickson, John, Coop Street
Porter, J., Moore Street, Southshore
Smith, Thos. H., Temple Street
Smith, Geo., Marton, near Blackpool
Smith, Thomas & Sons, Great Marton
Ward & Brown, Revoc
Whiteside, Jno., Church Street

BOLTON.

Burrow, Wm. & Son, Ruth Street, St. George's Road
Bradbury, James Orlando Street (Bricklayer)
Bramwell S., Hampden Street (Slater)
Bryce, Wm., Hanover Street
Cunliffe, Wm., John Street, Derby Street
Critchley, H., Palace Street (Plasterer and Painter)
Cuerden, R., St George's Road (Plumber)
Davies, Richard, Shaw Street
Dickinson, John, Bark Street
Dobie, W., & Sons Nelson Street
Dougill, W., 10, Hampden Street
Gowanlock, R. & Sons, 113, Hampden Street
Gregson & Smith, Mere Hall Street (Masons)
Hodson, J. Junr., St. George's Road (Slater)
Harrison, W., 27, Davenport Street
Haywood Henry, 19, Church Street
Kay, Wm., 291, Bark Street
Kenyon, Wm., Spa Road
Maginnis, Edwd., Brightmet Street
Marsden, J. H. & G., Bridge Street
Norris, Chas., & Sons, Bridgman Street
Paton, R., Bradford Street
Taylor, J. W., Exors. of, Bury New Road
Townson, Wm., Park Hill Street
Warburton, A., 75, St Helen's Road, Daubhill (Plasterer and Painter)

BOOTLE.

Hughes & Stirling, 4, Brasenose Road
Webster, Samuel, 10, Brasenose Road
Woods, George & Son, 268, Stanley Road, Canal Bridge

BURNLEY

Astin, William, Bankhall Terrace
Cudworth, George, Temple Street (Mason)
Dean & Sons, Plumbe Street (Joiner)
Gill, Thomas, Burnley Lane
Hanson, John, Stanley Street (Joiner)
Heaps & Harrison
Heap, Edmund, Lorne Cottage
Howley, John, 8, Temple Street
Kippax, Robert, 4, Fairbairn Street
Laycock Daniel & Sons, Ormerod Road
Oates, Thomas, 30, Berkeley Street
Owen & Co., Manchester Road (Plumbers)
Simpson Bros., 10, Ardwick Street
Smith, G. & Sons, Redruth Street (Joiners)
Smith John, Plumbe Street
Smith Bros., Albert Street (Masons)
Simpson, Jer. Slater Street (Mason)
Stanworth, William, Cuerden Street (Slater)
Todd, Henry, 52, Waterloo Road

BURY.

Birtwistle, A. & Sons, Bolton Street
Brierely, Charles, Fishpool
Byrom, James, Whitelegge Street, Woolfold, near Bury
Clough, Thomas, School Brow
Crossley, Thomas, Buckley Wells
Comfort, Jethro, Rosehill
Crossley, Thomas, Byron Street
Hall, J. & S., Cateaton Street
Hill, F. & C., Tenterden Street
Inman, John, 41, Horne Street, Fishpool
Smith, John & Sons, East Street
Thompson & Brierley, Paradise Street
Turline, John, Parker Street
Wilde, T. & L., South Cross Street

CHORLEY.

Brownley, Robert, Railway Street Saw Mills.
Brindle, James & Sons, 88, Clifford Street
Collinson, William, & Son, Dole Lane
Evans, James, 34, Steeley Lane
Leyland & Walmsley, Sherbourne Mill
Lucas, John R., St. Thomas's Square
Lupton, James, & Son, Bolton Street
Tootell George, & Son, Stanley Place Saw Mill

CHURCH, near ACCRINGTON.

Grimshaw, James, Drill Hall Lane

CLITHEROE.

Carr, Joseph & Son, Moor Lane
Hargreaves & Whalley Lowergate
Jackson & Bleazard, Eshton Terrace
Mitchell, Thomas, Eshton Terrace
Veevers & Son, Shaw Bridge

COLNE.

Atkinson, John R., Hagg Street
Brown, Jno. & Wm., Brown Street
Hawley, Joseph, Brown Street
Lane, John, Cragg Street
Lane, Thomas, Skipton Road
Lancaster, Peter, Walton Street
Robinson, Peter, Foulridge, near Colne

DARWEN

Lloyd & Millward, Blackburn Road

ECCLES.

Moore, Thomas & Sons, Monton Road

ELTON, BURY.

Hardman, C. & Sons
Newhouse & Wrigley

FISHPOOL, BURY.

Brierley, Charles
Inman, John

FLEETWOOD.

Jones, R.
Riley, Thomas

GARSTANG

Collinson, J. & Sons, Nateby Works

HEATON NORRIS.

Meadows, Thos. & Wm., Heaton Norris Saw Mills

HORWICH.

Binns, J. & T., Winter Hey Lane

INCE, WIGAN

Wigan, Alexander, Manchester Road

LANCASTER

MASONS.

Harrison, Wm., Moor Lane
Lancaster, Thos., Ulleswater Road
Warbrick, Wm., Penny Street

JOINERS

Blades, Chas., Dalton Square
Greene, John, Bulk Street
Hatch, James, & Sons, Queen's Place
Wright, R. S., & Sons, King Street

PAINTERS.

Bleyard, G., Penny Street
Bulfield & Lawton, King Street
Meadowcroft, E., Gage Street
Paton & Bufield, King Street
Payne, Edwin, Castle Hill
Shrigley & Hunt, Castle Hill

PLUMBERS.

Abbott, Brock Street
Calvert & Heald, Market Street
Seward A., & Co., Market Street

SLATERS AND PLASTERERS.

Cross, Thos., & Son, King Street
Hall, R., & Son, Friar Street
Hartley, H., & Sons, North Road
Huntington, Wm., King Street

LEIGH

Eddison, J. Henrietta Street
Eyet, H., Ducie Street
Wright, Peter, Union Street

LITTLEBOROUGH.

England, James (Joiner)
Taylor, E., & Co.

LIVERPOOL.

Brown & Backhouse, 58, Chatham Street
Gabbutt, Edmund, 50, Oakes Street
Goodall & Co., 38 & 40, Hope Street (Slaters and Plasterers)
Henshaw, Joshua, 8 & 10, Chatham Street
Haigh, T., & Co., 11 & 13, Fraser Street
Holme & Green, 10, Benson Street
Holme James, 7N, Hicks Road, Seaforth
Hughes & Stirling, 6, Stanley Street
Johnson G., Seaforth
Jones & Sons, 21—25, Pleasant Street
Kelly Bros., Walton
Lewis, John, Arundel Avenue, Sefton Park
Merrick, Wm., Benson Street (Plumber)
Mayor, F., Tithebarn Street

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Norton, G H., & Sons, Bold Street (Painters, Decorators, &c.)
Nicholson & Clarke, 168, Wellington Road
Oates, Richard, 26, Vauxhall Road
Pollard, F. W., 4 to 8, Bamber Street
Roberts & Robinson, Ltd., Bevington Bush
Roberts, Jas., 28, Upper Stanhope Street
Tanner, John, & Son, Gill Street (Slaters and Plasterers)
Thornton & Sons, 38, Wellington Road
Tomkinson, Wm., & Sons, 21, Dansie Street
Tomkinson, Wm., & Co., 22, Roscommon Street
Tyson & Co., Roscommon Street
Urmson, Thos., 60, Soho Street
White, Alexander, & Sons, Duke Street (Painters and Decorators)
Wilby, A. C., Falkner Street (Painter, Plumber, &c.)
Witter, W. & F., 8 and 10, Chatham Street
Yates, Hugh, 26, Bute Street

LONGRIDGE, near PRESTON.

Kay & Pinder, Chapel Hill
Robinson, A., Lower Lane

MANCHESTER.

Armstrong, F., Broughton Lane
Barrow, J., Sebastopol Street (Slater)
Bailey, W., 74, Wilmslow Road, Withington
Birch, J., St John's Street, Deansgate
Brown, W., & Son, Old Trafford Rd, Salford
Burgess & Galt, Upton St, Stockport Road
Clay, G, 8, Bootle Street
Cain, J. & P., King Street, Stretford
Cordingley & Stopford, Stockport Road
Ferguson, W. & Co., Lower Mosley St. (Plasterers, &c.)
Gerrard, J., & Sons, Worsley Road, Livinton
Harrison, W., & Son, Browncross Street, Salford (Plumbers and Glaziers)
Harrison, W. W., 16, Wright Street, Greenhays
Harwood, J. J., Strangeways (Plasterer and Painter)
Haynes, F. & E., Denmark Road, Moss Side
Healey, W (Exors. of), Hulme St., Salford (Excavators and Bricklayers)
Heyworth, R., Faulkner Street (Plumber and Glazier)
Holt, W., Elizabeth Street, Cheetham
Jackson & Sons, Old Lane, Openshaw
Johnson, S., Irlam on the Height
Kendall, J. B., Dyche St., Rochdale Road (Stonemason)
Kenworthy J. P., Green Street, Ardwick
Knight, T., Bolton Street, Salford
Langdon & Co., 77, Sackville Street
Lomas, W. H. (Exors. of), Strangeways (Plasterers and Painters)
Matthews, H., Darley Street Hyde Road
Matthew & Yates, Lever Street
Megarity & Co., Strangeways
McFarlane, G., New York Street, Chorlton-upon-Medlock
McFarlane, J., 68, Granby Row
Neill, R. & Sons, Broughton Lane, Strangeways
Pattesoti, J & H., Oxford Street (Stonemason)
Peace & Norquay, 70 Port Street
Parkinson, G., Palmerston Street, Ancoats
Ramsbottom, J., Church Street, Pendleton
Roberts, D & Co., Rochdale Canal Yard, Dale Street
Southern, W., & Sons, Bank Parade, Salford
Scott, T., Atherton Street
Statham, J., & Sons, 3, Broad Street, Pendleton
Sidebotham, S., Adlands Lane, Levenshulme
Shaw, H., Grafton Street, Oxford Street
Shaw, W., Fern Leaf Street, Greenheys
Thorpe, W., Cornbrook Park Road
Whitell, R., Barnes Green, Blackley
Wood, E., Milton Street, Lower Broughton
Warburton, S., Miles Platting
Ward, J. L., 65, Upper Brook Street, Chorlton-upon-Medlock.
Wilson, Toft & Huntley, 3, City Road, Hulme

NEWTON-LE-WILLOWS.

Pennington, J., Earlstown
Pennington & Watson, Ashton
Scott, T., Market Street
Wakefield, J., Golborne

NEWCHURCH, ROSSENDALE.

Ashworth, J., Whitewell Bottom

OLDHAM.

Ashton, J. & Sons, Cheapside
Booth, Smith, Fielding Street, Lees Road
Brown, Henry, Bourne Street, Hollinwood, near Oldham
Dodd, Wm., Featherstall Road
Dunkerley, S., Sons, & Co., Werneth
Halliwell, H., Hollinwood
Lees, W., & Sons, Smith Street
Mallalieu & Milne, Hartley Street
Ogden Bros., Middleton Road, W.
Partington, John, Chadderton
Partington, O., M Junction, near Oldham
Partington, John Middleton Junction
Schofield, C., & Co., Lees Road
Smethurst, S., Crossbank Street
Smethurst, S & J., Rochdale Road
Stephenson, E., Union Street West
Spencer, John, & Bros., Prince Albert Street
Turner, Wm., St. Stephen Street
Whitehead, J. & J., Swan Yard, Huddersfield Road
Whittaker, W., Rochdale Road
Whittaker, Emanuel, (Exors. of) Rochdale Road
Wrigley Bros., Chamber Road

ORMSKIRK.

Riding, T., & Son, Chapel Street
Riding, W., Barscough Street
Whittle, J., Moor Street

PATRICROFT.

Brooks, N., & Son, Ellesmere Street
Chapman & Hollingworth, Green Lane
Roper, J., Barton Road

PEMBERTON.

Bywater, A., Ormskirk Road
France & Smith, Newtown

PRESTON

Arrowsmith, Robert, Ormskirk Road
Baldwin, J., 117 & 118, Park Road
Billsborough & Sons, Lune Street (Plumbers)
Bradshaw, Jas. R., & Son, St. Paul's Road (Slaters)
Chitson, Chas., Avenham Street (Plumber)
Christian, J. G., Grimshaw Street
Cooper & Tullis, Old Vicarage
Cottom, T., Fyld Road
Croft, T., St. Paul's Road
Dewhurst, R., Fylde Road
Hill, G., Cannon Street
Hothersall, W., Chapel Walks
Hull, J., Green Bank, Brook Street
Kenyon, T., Aqueduct Street
Nickson, Thos., St. Paul's Road (Slater)
Park, Robt., & Sons, Fox Street (Plumbers)
Robinson, Jos., Moor Lane (Slater)
Swarbrick, Jas., Victoria Parade, Ashton (Bricksetter)
Taylor & Co., Fishergate Hill (Plumbers)
Tullis, D., & Son, St Paul's Road
Tyson, Jas., Aqueduct Street East (Plasterer)
Walker, C., Arthur Street
Walmsley, J., Theatre Street
Walmsley & Co., Fishergate (Plumbers)
Whiteside, W., Old Vicarage
Wilding & Sons, Lune Street (Plumbers)

PRESTWICH.

Barker, Joseph, Rainsough

RADCLIFFE, near MANCHESTER.

Allen, John, Railway Street
Collier & Smith, Church Street
Rigby, Wm., Seymour Street

RAINFORD.

Pilkington, James

RAWTENSTALL.

Hobson, S., Constable

ROCHDALE.

Berry, Thos., & Son, Milnson Road
Coates, J & J., Off Whitworth Road
Crabtree, Thomas, Sheriff Street
Peters, W. A., & Sons, Townhead Saw Mills
Taylor, Thomas, King's Road

SALFORD, see Manchester.

SAINT HELENS.

Becket, Samuel, Tontine Street
Croke & Marsh, Liverpool Road
Davies, R. H., Boundary Road
Fisher, James, Olive Mount, Sutton
Harrison, Wm., Cotham Street
Hesketh, Geo., Traverse Street
Latham, James, Windle Timber Yard
Molyneux, Wm., 24, Ashcroft Street
Rotherham, T., Boundary Road
Roberts, Thos., North Road
Rothwell, John, Knowsley Road
Rothwell & Sons, Knowsley New Road
Shaw, Hugh, Junction Road, Sutton
Tickle, Peter, Ramford Street
Waizborn & Son, Kirkland Street
Whittaker, John, Foundry Street
Yeardsley, T. & J., Cotham Street

SMITHY BRIDGE, near ROCHDALE.

Preston & Dryland (Bricksetters and Stonemasons)

SOUTHPORT.

Blanchard, Joseph, 1, Harves Side Street
Connard, Wm., 125, Hampton Road
Connard & Tetlow, Lord Street (Painters and Decorators)
Duxfield, Bros., 2, Virginia Street
Fairbridge & Hatch, Aughton Road, Birkdale (Joiners and Builders)
Fenton & Fleet 95 Linaker Street
Foster, W., Shakespeare
Halsall, Henry, 33a, King Street (Stonemason)
Hill Wm., & Foster, Shakespeare Street
Hutchinson, Geo., 46 & 48, Tulketh Street
Johnson & Clegg, Shakespeare Street (Stonemasons)
McWhan, J., East Bank Street
Shaw, Nicholas, Zetland Street
Vaughan, W., Kensington Road

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Whitehead, T., Portland Street
Wilkinson, Wm., 141, Shakespeare Street
Wilkinson Daniel, Forest Road
Wishart & Irving, Hill Street (Joiners and Builders)
Wycherley, Geo, Rawlinson Road

STRETFORD.

Cain, John & Philip, King Street

TODMORDEN.

Halstead Bros, Eastwood
Lumb B
Mashon Marmade, Stansfield Road
Smith, Benjamin

TYLDESLEY

Bentley, A.

WALTON, near LIVERPOOL.

Kelly Bros., 77 & 107, Rice Lane

WARRINGTON.

Collin, John, & Son, Academy Street
Gibson, Joseph, & Son, 31, Church Street
Norbury, John, Wilderspool Road
Taylor, Wm., Haydock Street
Walington, Geo., Junr., 35, Froghall Lane

HAWTRTREE, near LIVERPOOL

Dilworth, T., Childwall Road
Morrison & Sons, 260, Picton Road

WIDNES

Sayce & Randle, Appleton Quarry

WIGAN.

Ablett, David A., Sovereign Saw Mills
Blackburn & Leyland, Mab's Cross (Plumbers)
France & Smith, Newtown
Gaskell & Son, Millgate (Plumbers)
Holmes, C. B., Cross Street Saw Mills
Johnson & Son, Regent Street
Johnson, J, Caroline Street
Lea, W, & Brother, King Street (Painters and Plasterers
Lea, J, & Son, Rodney Street (Painters and Plasterers)
Millington, Alfred, King Street
Preston, John, Church Street Saw Mills
Wilson, J, & Sons, Caroline Street
Winnard, Wm., 186, Wallgate

WOOLFORD.

Byrom, James

LEICESTERSHIRE.

BARROW ON SOAR, near LOUGHBOROUGH.

Black, Wm.
Black, Henry

BOTTESFORD, near NOTTINGHAM.

Challands, H. & J.

BELGRAVE, near LEICESTER.

Harrison, W E., Halkin Street

GLEN MAGNA.

Haycock, Charles

HUNGARTON, near LEICESTER.

Greaves, Wm

HUSBANDS BOSWORTH

Wells, Robert

KILWORTH.

Mason, T. & W

LEICESTER.

Bass, C, Albion Hall
Bentley, S & E, Regent Street
Bentley, J., 6, Evington Street
Bland, T. & Son, Harvey Lane
Bland, H., 27, Oxford Street
Chambers, H. T. & A., 165, Belgrave Gate
Clarke & Garrett 9, Willow Street
Duxbury G & Son, Northampton Street
Elliot, N., 137, Great Holme Street
Gimpson, W. & Sons, Welford Road
Haliam, J J, St Saviour's Road
Herbert, J. H., Welford Road
Herbert, T, Welford Road
Hewit, G., 74, Humberstone Gate
Holt, G., St. Peter's Road
Hutchinson, J, Morlege Street
Hutchinson, E. T., Morlege Street
Hutchinson, J. & Son, Lincoln Street
Jewsbury, J. O., 40, Oxford Street
Kellett, W. H., 62, Ayleston Street
Kellett, J. C., 24, Asylum Street
Major & Son, 39, Great George's Street
Mason, J., 135, St. Saviour's Road
Mason, J. H, 66, King Richard's Road
Plant, A., Highcross Street
Plant, J, Highcross Street
Pipes, E. B, 22, Gopsall Street
Tyers, T. C, Humberstone Road
Tyers & Yates, Bright St., Humberstone Rd.
Wright, C., 15, Midland Street

LONG WATTON.

Wilkins, Jesse

LOUGHBOROUGH.

Barker, Thomas, Swan Street
Corah, W., Pinfold Gate
Faulks Arthur
Main, A. & S.
Moss, William, Baxter Gate
Needham, W., Derby Road
Watson & Lositt

LUTTERIWORTH.

Law & King

MELTON MOWBRAY.

Barnes, Charles, Thorpe End
Fast, John J.
Glover, Josiah
Wartnaby, John R., Charlotte Street

NEWFOUND POOL, near LEICESTER.

Wright, C., Beatrice Road

QUORNDON.

Fewkes, B.

ROTHLEY.

Slack, Frank

SHEEPSHED.

Atkin, W., Brook Street

SOUTH WIGSTON.

Orson, Wright, & Co.

STOKE GOLDING, near HINCKLEY.

Shilton, Thomas

SYSTON, near LEICESTER

Hickling, W.

WALTHAM ON THE WOLDS.

Chester, George

WOODHOUSE EAVES.

Wesley, Oliver

LINCOLNSHIRE.

BARNETBY (ULCEBY post town).

Manders, J.

BARTON ON-HUMBER.

Davis & Hewitt, 12, Burgate
Stamp, John, Finkle Lane

BOSTON.

Sherwin, S, Wide Bargate
Lucas, John, West Street

BOURN.

Chappell, H., North Street
Story, J. T., North Street

BRIGG

Dent, George, 12, Bridge Street
Clark, Caleb, Queen Street

BROUGHTON (BRIGG post town)

Holt, Thomas

CROSSBY.

Ellis, James

GRANTHAM.

Hockley & Son, London Road
Priest, W. & G., Wharf Road
Rudd & Son, Wharf Road
Sharp, M. J., Little Bytham
Walker Bros. & Parks, Little Gonerby
Walker Bros., Castlegate
Wartnaby & Son, Little Gonerby.

GRIMSBY.

Hollingworth, Richard, Victoria Street

HORNCASTLE.

Hatcliff, Mark
Walter & Hensman, Bank Street

KIRMINGTON, (ULCEBY Post Town).

Havercroft, John

LINCOLN.

Allis, Geo, Bailgate
Close, H S. & W., Brayford Wharf
Goodbarne, W. S., Brayford Wharf
Harrison, Melville Street
Harrison J. B, 8, Portland Street
Harrison, J M., Norman Street
Harrison, J W. & Son, Foss Street
Horton, S, 18, Portland Street
Martin & Sims, Castle Hill
Morgan, G, Butchery Street
Otter & Broughton, St Rumbold Street
Wright, W, & Son, Park Street

LOUTH.

Thompson & Sons

MARKET RAESEN.

Scupham, Henry

RIPPINGALE, near BOURN.

Wortley, John

RUSKINGTON, near SLEAFORD

Pattinson, S & W.

SCUNTHORPE (DONCASTER, Post Town)

Bainton Geo. Edward
Wilford, Samuel

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

SLEAFORD

Maxey, W., Eastgate

SPILSBY.

Hunter & Son, West End Terrace

STAMFORD

Bowman, E., Recreation Road
Halliday, S. F., Scotgate
Roberts, Bros., Wharf Road
Woolston, John, St. Peter's Hill

ULCEBY.

Potts, William

WOOTON (ULCEBY, Post Town).

West, Wm. & Robert

SUTTON BRIDGE, WISBECH.

Bateman, Samuel
Bateman, James

MIDDLESEX.

FELTHAM.

Larrett, C.
Lodge, C.
Watson, H. C. & Son

GREAT STANMORE.

Kirby, G. & Sons, Great Stanmore

HAMPTON WICK.

Constable, G. J., The Terrace

SOUTHALL.

Gibson, J.

TEDDINGTON.

Piller, J., Church Road

TWICKENHAM.

Messom, T. J., Grosvenor Road

UXBRIDGE.

Fassnidge & Son, St. Andrew's
Kearley, C. F., High Street

MONMOUTHSHIRE.

ABERGAVENNY.

Foster, Thomas, Brecon Road
Thomas, J. G., Lion Street

BLAENAVON.

Burgoyne, J.

MONMOUTH.

Morgan, Charles, Maybill
Roberts, D. & Son, Wyeside

NEWPORT.

Blackburn, Wm., Marshes Road
Blackburn, W. M., The Lindens, Pentonville
Francis, Jonah, 9, Francis Street
Jones, Wm. & Son, 5, Mountjoy Place
Linton, John, 88, Commercial Street
Mailton & Brownicomb, Temple Street
Martin, Geo., Clytha Park Road
Miles, Chas., Clytha Park Road
Wilkins, J., Clytha Park Road

NORFOLK.

CROMER

Riches G.

DEVSINGHAM, near LYNN.

Chambers, G., & Son

EAST DEREHAM

Mayes, R., Norwich Road

GORLESTON

Cockrill, J. W. & Sons, High Street
Fuller, G., High Street
Kemp, R., High Street
Leggett, T. G., England's Lane

HUNSTANTON.

Beeton, J. W.

KINGS LYNN.

Bardell Bros., London Road
Brown, W. H., London Road
Dye, R., London Road
Langley & Son, King Street
Thing & Son, High Street

MIDDLETON, near LYNN.

Gamble, G.

NORTH WALSHAM.

Cornish & Gaymer

NORWICH.

Daws, Robt., Dereham Road
Downing, J. & Son, Victoria Street
Hawes, G. E., Duke's Palace
Holmes, J., Red Lion Street
Hurn, John, Princes Street
Lacey, Horace, Upper King Street
Lacey, J. W., Bridge Street, St. Andrew's
North, W., St. Stephen's Street
Scailes Bros., Surrey Road
Smith, J. S., New Lakenham
Wegg, R., St. George's
Wilkin, W., Cow Hill, St. Giles
Wilkins, W., Grapes Hill, St. Giles
Youngs & Son, Chapel Field Road
Youngs, J., Chapel Field Road

SOUTHERY.

Porter, D. & Son, Downham Market

SNETTISHAM, near LYNN.

Chivers, Jonas

UPWELL.

Elworthy & Son

WEST WALTON.

Grimmer & Webb

YARMOUTH (GREAT).

Bond, A. E., Albion Road
Cooper, J. S., Theatre Plain
Cork & Beech, Caistor Road
Davy, Robt., Market Road
Hows, Thomas, York Road
Leggett, James, Dene Side.
Springall, B., Nelson Road

NORTHAMPTONSHIRE.

COGENHOE, near NORTHAMPTON.

Clayson Bros.

COOKNOE, NORTHAMPTON.

Clayson Bros.

DAVENTRY.

Gee

DENFORD THRAPSTON.

Freeman & Son

EASTON STAMFORD

Perkins, Messrs., Easton-on-the-Hill

FINEDON.

Abbott, S.

KETTERING.

Barlow, A., Tanner's Lane
Barlow, Edward, Rothwell Lodge
Bellamy, John, Victoria Street
Cottman, J.
Henson, Geo., Headlands
Henson, C. & F., Headland Road
Henson, H., Victoria Street
Henson, G. N., The Broadway
Henson, H. F., Alexandra Street
Manby, S.
Margetts & Neal
Payne, W. J., Upper Field Street
Sharman, C., Market Street

NORTHAMPTON.

Archer, Ed., 56, Abington Street
Beardsmore, Wm., Albert Street
Clarke, J. B., Park Crescent
Cleaver, R., Wood Street
Cosford, Thos., Connaught Street
Finnigan, R. Burns Street
Fisher, Geo. J., Castilian Terrace.
Green Bros, Palmerston Road
Hawtin, Colwyn Road
Heap, Wm., St. James' Street
Martin Henry, Thenford Street
Reynolds & Son, Derngate
Smith Bros, 28, Gold Street
Watkin Bros., 42, Sheep Street
Wingrove, J. T., Talbot Road
Woodford & Sons, Scarletwell Street

PETERBOROUGH.

Furness, R., Cromwell Road
Hicks, Henry, Huntley Grove
Machin, H., Huntley Grove
Thompson, John, Wood Street
Wenlock & Co, Lincoln Road

ROTHWELL, near KETTERING.

Barlow, Fred
Barlow, Ed.

RUSHDEN, HIGHAM FERRERS.

Bayes & Son, Little Street
Sparrow, Henry, Wellingborough Road

THRAPSTON.

Coates & Son

TOWCESTER.

Heath, Thos.
Wheeler, Thos.

WELLINGBOROUGH.

Brown E., & Son, Castle Street
Henson, G., Midland Road

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NORTHUMBERLAND.

ALNWICK.

Armstrong, M , Beaconsfield Terrace
Dryden, W. & Son, Glanton
Dunn, J , Bondgate Without
Forster, T. & Son, Narrowgate
Hunter, H., Prudhoe Street
Luke & Dixon, Green Batt
Modral, T. W., Chapel Lane
Short, J. & Son, Roxburgh Place
Smith, W. J.
Whinham, J., Willoughby's Cottage
Wilson, J. & Sons, Duke Street
Wright, W., Wagon Way

AMBLE ACKLINGTON.

Brown, R & G.
Carse, R & Son
Green & Douglas

BERWICK

Birgham, W., Tweedmouth (Joiner)
Burn, A C., Spittal (Joiner)
Elliot, H , College Place
Gray & Son, Ravensdonne
Henderson, W., Tweedmouth (Joiner)
Hope, J , Tweedmouth (Plumber)
Rule, P., Tweedmouth (Slater and Plasterer)
Storar, D., Spittal (Joiner,
Turner, J. & Sons, Hornclifle (Slaters and Plasterers)
Weatherston, J , (Slater and Plasterer)
Wilson, J. & Son (Plumber)

BLYTH.

Simpson, J & W.

GATESHEAD-ON-TYNE.

Haswell & Waugh
Lamb, T. & R.

GOSFORTH.

Gabey, L., Causey Street

LESBURY.

Wilson, J. & Sons,

NEWCASTLE ON TYNE.

Baston, W., New Bridge Street
Burnup & Sons, 77, Clayton Street
Burton, S. B , 16, Ridley Villas
Dinning & Cooke, 91, Percy Street (Plumbers)
Elliott, J., Moseley Street
Ferguson, J., St. Mary's Place
Forsyth, J., Elswick Court
Kirk & Brown
Lowry, J. & W., Corporation Street
Maughan, N., Westgate Road
Middlemiss Bros., 107, Northumberland Street
Reed, E. B. & Son, West Blandford Street
Reed, N & R., 48, Bath Lane Terrace
Richardson & Co., Dean Street (Decorators)
Scott, W., 21, Granger Street, W.
Scott, G. & Son, Douglas Terrace, E.
Tyrie & Graham
Walker, H & Son, Gallowgate (Plumbers)
Watson, H & Son, High Bridge (Plumbers)
Weatherill, T
Welton, W., near Wark, North Tyne

NORTH SHIELDS.

Bolton R. King Street
Coulson, T , Victoria Place
Elliott, J , Church Street
Fishburn Bros., Grosvenor Place
Holden, R., Waterville Road
Park, G., Grey Street
Simpson, J. & W., Railway Terrace
Slace Messrs., Church Street
Sopwith & Kent, Church Way

TYNEMOUTH.

Hutchinson, J., Front Street
Vert, J.

WHITLEY.

Nesbit, R.
Styan, J.

NOTTINGHAMSHIRE.

MANSFIELD.

Fisher Bros., Albert Street
Frisby, S & G., Stockwell Gate
Greenwood, John, Wood Street
Vallance, Charles, Cumbes Street
Vallance, W. A., Clumbes Street

MANSFIELD WOODHOUSE.

Stevenson, George

NEWARK.

Baines, C., Appleton Gate
Smith & Lunn

NOTTINGHAM.

Adams, J. J., Colville Street
Barlow & Whittaker, Pinder's Road
Bell, G & Son, Sherwood Street
Cargill, J. & J., Duke Street, New Basford
Clarke, A. B., Wright Street, Blue Bell Hill
Cooper, John, Forest Road West
Cuthbert, J., Patterson Road, Hyson Green
Daubney, H., 2, Peachey Street
Dennett & Ingle Station Street
Evans & Woodcock, Hyson Green
Fish, T & Son, Pilcher Gate
Fish & Sons, Hermsage Mills, Sneinson
Foster & Barry, 118, London Road (Road Contractors)
Gilbert & Gabbitass, 200, Waterway Street
Hatfield & Frost Launder Street
Henson, W., 406, Alfreton Road
Hodson & Son, Castle Meadow Road
Hind, Enoch, Edgar Rise
Hutchinson, J., Long Hedge Lane
Keeling, Benjamin, 140, Burford Road
Lynam & Kidd, Castle Road
Meale, Wm., Sherwood Rise (Road Contractor)
Messom, Fred., Lenton Boulevard, 33, Nottingham Road
Messem, J., 11, Lower Talbot Street
Savage, Wm., Belper Road, Hyson Green
Scott, Henry, 98, North Sherwood Street
Shaw, Joseph, Sherwood Rise
Smart, Thos , Trent Bridge, London Road (Road Contractor)
Thumbs, Samuel, 26, Canal Street (Road Contractor)
Vickers, Henry, Waterway Street
Vickers & Son, Wilford Road
Wartnaby, Francis, 23, Heskey Street
Wheatley & Maule Sherwood Street
Woodsend, Wm., Toll Street
Wright, John, Raleigh Street

RETFORD

Wilson, John
Hopkinson, Thomas, 3, London Road
Tomlinson J , Grove Street

OXFORDSHIRE.

BANBURY.

Grant, John, Middleton Road
Kemberley, J S., Britannia Road
Orchard & Son, Bridge Bank
Page, Thomas, Middleton Road

BICESTER.

Grimsley, T. & Son, The Causeway

CHIPPING NORTON.

Burden Bros
Hobbs, W. J., West End

DEDDINGTON.

Franklin, H. R.

GORING.

Higgs, T.

HENLEY-ON-THAMES.

Clements, C.

OXFORD.

Castle & Martin, Bullingden Road
Castle, G., (Exors.), Pembroke Street, St. Clements
Colston & Plumridge, Worcester Place, Walton Street
Curtis, C , Little Clarendon Street, St. Giles'
Kingerlee, T. H., 35, Queen Street
Knowles & Son, 36, Holywell Street
Symm & Co., Little Clarendon Street, St. Giles'
Wilkins & Sons, 28, Walton Crescent, St. Giles'
Wyatt & Son, 74, St. Giles' Street
Wyatt, W., St. Giles'

WITNEY.

Bartlett

RUTLANDSHIRE.

UPPINGHAM.

Chapman, J., High Street
Dean, W., High Street

SHROPSHIRE.

BISHOP'S CASTLE.

Bright, W. C.

BRIDGNORTH.

Bate, Whitburn Street
Head & Son, Whitburn Street

LUDLOW.

Gray & Watkins, Broad Street
Grosvenor, J , Corne Street

MEOLE.

Rowlands, John, Post Office

OAKENGATES.

Blakemore, J.
Millington, R. & J

OSWESTRY.

Morris, Chapton & Co., Salop Road
Evans & Wilkinson
Thomas, W. & G., Salop Road

SKIFNAL.

Yates, R , New Street

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SHREWSBURY.

Bowdler & Co., St. Julians Friars
Davies, Fred , Chester Street
Everall, Robt., The Priory
Farmer, Hy., English Bridge
France, Thos., Alton Terrace
George, Edward, Abbey Foregate
Gethin, John, Frankwell
Jones & Son, St. Alkmond's Place
Morris, Thos., St. Austin's Friars
Price, Rd , Coleham Building Yard.
Treasure & Son, 16, Chester Street

WHITECHURCH.

Pickard, J., 16, Dodington

WELLINGTON.

Roper, A.

STAFFORDSHIRE.

ALTON.

Fielding, J.

BLACKWICH.

Wootton, Samuel

BURSLEM.

Bennett, N., Newcastle Street
Bowden, J. Moorland Road
Brindley, J.
Cooke, Wm., 55, Newcastle Street
Grant, W., Nile Street
Longden, J. J., Newcastle Street

BRIERLY HILL.

Horton, C. A.

BURTON-ON-TRENT.

Chamberlain Bros., Uxbridge Street
Edwards H., King Street
Hodges, G., Byrkley Street
Hunter, J & C , Moor Street
Lowe, T. & Sons, Union Street
Maddocks, J., More Street
Mellors, H C., Borough Road

CANNOCK.

Reynolds, John

CHESTERTON, near NEWCASTLE-UNDER LYME

Rose Vale Brick & Tile Co. (Cork and Downing).

CRADLEY HEATH.

Dorse, H , & Son

ENDON, STOKE-ON-TRENT.

Heath, J.

FENTON.

Minks, Thos.

HANLEY.

Corns, Cornelius, Lichfield Street Joinery
Ellis, Geo., High Street
Godwin, T. Vine Street
Tildesley, Jas. K., Church Street

HEDNESFORD.

Barson, Robert

LEEK

Grace, Thomas, Broad Street
Knowles, Wm., Derby Street
Lovatt, Richard, Bath Street
Mathews, J. & J., Buxton Road
Nixon, W. & J., Stockwell Street
Phillips, E., (Plumber) Leek

LONGTON.

Bennion, Peter H , Anchor Road
Bromage, T. S., Foley Road
Collis, William
Goodwin, H., Edensor Road
Inskip, H. & R., School Lane
Inckes, B., Mount Pleasant
Tompkinson & Betteley, Beaufort Road

MILTON, STOKE-ON-TRENT.

Moss, James

NEWCASTLE-UNDER-LYME.

Gallimore, J., Lower Street
Maddocks, Thomas

PENKRIDGE.

Gilbert & Sons

RUGELEY.

Mason, T.

STAFFORD.

Chatfield & Wrench, Bridge Street
Espley, F., Victoria Road
Herbert, Thomas, Wright Street
Jervis, J., County Road
Nevitt, C. J., Saw Mills, Bailey Street
Pemberton, W., Wolverhampton Road
Reynolds, W., Victoria Terrace
Whittome, A. F., Gaol Square
Woollams, W. F., Gaol Road
Williams, G., The Green

STOKE-ON-TRENT.

Barlow, Nathan, Copeland Street
Bradbury, Bros., Bath Street
Bradbury, Richard
Breeze, Joseph, Copeland Street
Hancock, W., Lonsdale Street
Harris, George, Lovatt Street, Liverpool Road
Yoxall, Thos. R., Trent Bridge

TAMWORTH.

Clarson, Charles & Son, Aldergate Street
Watton, Thomas & Sons, Albert Road

TUNSTALL

Grosvenor, John, America Street
Procter, John
Smith, Charles, America Street
York, John, High Street

WALSALL.

Kendrick, William, Walhouse Street
Lynex, Alfred, Vicarage Place
Taylor, Thomas, Hall Lane
Wistance, William, Sandwell Street

WALSALL WOOD.

Cresswell, J. & E., Bros.

WEST BROMWICH.

Fisher, William, Paradise Street
Heelis, Richard, Barrows Street
Mallin, John, Churchfield
Smith, Henry, & Sons, Dial Lane

WILLENHALL.

Homer, Alfred, Little London
Tildesley, Thomas, New Road

WEDNESBURY.

Trow & Son,

WOLVERHAMPTON.

Bradney & Co., St. Mark's Road
Cockerill, J. & W., Darlington Street
Ford, C. & Sons, Mander Street
Gough, Henry, Dudley Road
Guest, Benjamin, Church Street
Highman, G. & F., Castle Street
Jones, J. & Sons, Ettingshall
Lovatt, Henry, Darlington Street
Rollings, B., Powlett Street
Webb & Day, Steelhouse Lane
Wilcock, H., Darlington Street
Cave, Geo., Ruby Street, Cleveland Street
Gough, Edmund, 5, Cleveland Street
Groves, Andrew, Waterloo Road North
Ham, T. and S., Church Lane

Wyrley—Grimsill, Thomas

SOMERSETSHIRE.

BATH.

Ambrose & Son, 3, Railway Place
Birth, W., Hartley House Belvedere
Bladwell, J., Railway Place
Hayward & Wooster, Walcot Street
Laver, Thomas, 14, Angel Terrace
Long, J. & Sons 18, Newark Street
Morgan & Son, 3, Kingsmead Terrace
Wibley, C., 10, James Street

BRIDGWATER.

Ashton & Popham, Washington Terrace
Chedzey Bros., Edward Street
Harris & Tapscott, Polden Street
Kitch, J. H., Salmon Parade
Pollard, H. W , Eastover
Stockham, J., Victoria Terrace
Willis & Son, St. Mary Street

BRUTON.

Clarke & Son

BURNHAM

Harding Bros.
Keats, J.
Randall, G.

FROME

Brown, F P., Pilly Vale Building Works
Chislett, Z., St Catherine Street
Hodder, J. & Sons, Broadway
Parfitt, T., Nunney Lane
Singer & Co., Ironfounders.
Vallis, J., Portway

LANGPORT.

Pittard, H

MILBORNE PORT.

Pitman, G.

NORTON, ILMINSTER.

Trask, Messrs.

PORTISHEAD.

Thomas, C. L.

RADSTOCK.

Bird, J., Frome Hill

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

SHEPTON MALLET.

Cook, J. S., Commercial Road
Emery, J., Town Lane
Pullen, J. H. West Shepton
Pullen, F W, Commercial Road

SHEPTON MONTAGUE.

Lydford, T.

TAUNTON.

Fox, C. O, Eastbourne Road
Handford, G., East Reach
Morse, J, Alma Street
Pollard, G. H., Wood Street
Potter, W., Albemarle Road
Rendell & Son, St James' Street
Spiller, H. J., Bridge Street
Spiller, A. J, Magdalene Street
Templeman, W., East Road

TRULL, TAUNTON.

Derham S

WESTON SUPER-MARE.

Addicott C, Locking Road
Allen, T., 10, Beach Road
Dyer, G., Ashcombe Farm
Haynes W., Locking Road
Lewis, R., Pen-y-Boine, Arundell Road
Palmer, J., The Boulevard
Pocock & Son, Swiss Road
Shorney, J. N, Raglan Circus
Shorney, R., 3, Landemann Terrace, E.
Vowles, J Locking Road
Wilcox, J., Ash Villa, Milton Road

WIVELISCOMBE.

Nurcombe, J.
Richards, Thos.

YEOVIL

Bartlett, E. R., Hendford
Cox, F. (Exors. of), Middle Street

SUFFOLK.

HALESWORTH

Howard, S.

HAVERHILL.

Mason & Son, High Street

IPSWICH.

Bennett, F., New Street
Grayston, W., Argyll Street
Girling, T, Wellington Street
Grimwood, G. & Sons, Corn Exchange
Thwaites, F., Norwich Road

LOWESTOFT.

Barker, R., High Street
Bedwell, A, Roman Lodge, Alexandra Road
Brett, R., 1, Regent Road
Cole & Wodehouse, Raglan Street
Guymer, W. R., Belvedere Road
Horth, R., 15 Factory Street
Swatman, J., 3, Mills Road
Wilsins, W.

MONKS ELEIGH, IPSWICH

Hawkins, R.

SURREY.

BETCHWORTH.

Debenham, D.

BRAMLEY.

Brown, H., Bramley

CATERHAM.

Scrivener, C. E, Caterham Valley
Thompson, Wm., Caterham Valley

CHARLWOOD

Wilkins, Abraham

CHERTSEY

Knight, T '& Sons, London Street

CRANLEIGH.

Holden & Son, Steam Joinery Works

CROYDON.

Ballock, A., Tanfield Road
Docking, F. R., George Street
Goulder & Glasscock, Wadden New Road
Hobbs, J W. & Co., Ltd., Morland Road
Keen & Son, Church Street
Maides & Harper, Cherry Orchard Road
Marriage, W, Oval Road
Page, E S., Borough Hill
Smith & Bulled, Strathmore Road
Waller, D., Church Street
Taylor, M, Southbridge Road

DORKING

Colls & Son, South Street
Cunliffe, Wm.
Goddard & Son, Knoll Road
Hamblin Bros., West Street
Pledge, J., Falkland Road
Putney, W. & J, Limeworks
Shearburn & Co., Steam Joinery Works, South Street

EGHAM.

Simpson, A., High Street

EPSON.

Chivington, W. J., East Street
Chuter Bros.
Furniss Bros., High Street

EWELL.

Best, H., High Street
Hards, A, High Street

FARNHAM.

Goddard & Son
Tompsett & Kingham

GODALMING.

Attfield, J, Mill Lane
Carter & Manfield, Rock Place
Hall, T. F., Dranery Works
Horn George, High Street
Humphreys, J. W., Boro' Road
Seabur, E., Brighton Road

GUILDFORD.

May, P. C London Road
Moon, A. W., North Street
Smith, W & Sons, Farnham Road

HORLEY

Jennings, Arthur & R, Albert Road

KENLEY

Hunter & Bryant

KEW.

Blasby, B., Gloucester Road

KINGSTON-ON-THAMES

Collings, J. J., Victoria Road
Cunliffe, Wm., Cromwell Road
Hamilton, G., Acre Road
Lane, W, London Street
Oldridge & Son, London Road, Norbiton
Wells, E., Eden Street

LEATHERHEAD.

Skilton, H., Bridge Street

LINGFIELD.

Head Bros.

MILFORD GODALMING.

Pink, Robert

MITCHAM.

Howard, H. J.

MORDEN.

Knight, Hugh, Morden Road

REDHILL.

Bagaley, Wm, Meadvale
Buckland, J., Shrewsbury Road
Cook, W. H., Station Road

REIGATE.

Apted, Bros., Doods Road
Bushby, Thos., West Street
Carruthers, Wm., West Street
Holdsworth, F, West Street
Kellick, Richard, Church Street
Nightingale & Sons, Lesborne Road
Nightingale Bros, West Street

SHALFORD, GUILDFORD.

Mitchell Bros.

RICHMOND.

Gascoyne & Blake, Onslow Road
Heasler, G. W., Hill Rise
Lansdown & Co., Eton Street
Lillywhite, A. & Sons, 1, Onslow Road
Sims F., Church Terrace
Sweet & Loder, Marshgate Road

SOUTH NORWOOD.

Bryan, G. E, High Street
Smith, James & Sons, Carmichael Road

SURBITON.

Adkins, C. & T., Carlisle Works

THAMES DITTON.

Callingham, W., Portsmouth Road

WARLINGHAM.

Ward, J. & J., Warlingham Station

WIMBLEDON.

Ackermann, W. C, Camden House, Hartfield Road
Harmer, Henry, Worple Road
Munday, John, Hartfield Road
Parsons & Townsend, Lingfield Road
Townsend, J., Lingfield Road
Way, Thos., Hartfield Road

WITLEY GODALMING.

Milton, Frank

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

SUSSEX.

ARDINGLEY.

Box, G.

BEXHILL.

Adams, Albert, Sidley
Barker, Stephen, Church Street
Farrow, F. W., Albert Road
Jenkins, Peter, Western Road
King, James, Station Road
Ockenden, Samuel, Junior, Belle Hill
Parker, Henry Belle Hill
Parker, F. W., Station Road.
Webb, J. W., Devonshire Hotel
Wilcox, H. Z., Cranfield Road

BOGNOR.

Booker, Bros.
Pratt, W.
Tate, Wm.

BRIGHTON.

Anscombe, J., 5 Hampton Street
Barnes, J., 99, North Street
Botting, Wm., 21, Ship Street
Carter, Jas., 35, St. George's Road
Cheeseman & Co., 33, Kensington Street
Cox, A. & Sons, 4, Springfield Road
Cresswell, H., 18, Blatchington Road, West Brighton
Davey, Bros., 9, Shaftesbury Road
Dean, A., 29, Ditchling Rise
Field, E., 40, Upper Lewes Road
Field, W. A. & B., 20, Preston Street
Freeman, V. I., 33, Kensington Street
Garrett W. & T., 62, Middle Street
Harrison J., 50 Springfield Road
Holloway Bros., 1, Dyke Road Drive
Lockyer, G. R., 16, King Street
Lynn & Sons, 32, Marlborough Street
Mason, R., 50, Grand Parade
Manwaring & Son, 13 & 14, Western Street
Newnham, J. M., 9, York Place
Parsons, W., 2, Clifton Street
Parsons & Sons, 118, Church Road, West Brighton
Patching & Son, 43 & 44, Portland Street
Saunders, J. J. G., Ivory Place
Wright, J. J., 57, King Street

BURGESS HILL.

Norman, S., London Road
Oram, W., World's End

CHICHESTER.

Badden, J. C., East Street
Gambling & Son Chapel Street
Holt, J., Westgate Street
Vick, F. M., Tower Street

CRAWLEY.

Longley, J. & Co., Steam Joinery Works

DITCHLING HASSOCKS.

Wood, Frank

EASTBOURNE.

Cornwell & Son, Royal Parade
Cornwell, E., Ashford Road
Coster, J., High Street
Dore, A., Commercial Road
Harding, John, Meads Road
Martin Mark, Susan's Road
Martin, Joseph, Commercial Road
Miller & Selmes, 76, Longstone Road
Peerless, James, Langney Road
Stanbridge & Tupper
Stevens H. & Sons The Limes, St. Leonards Road.
Tomkinson, Chas., Sussex Gardens.

EAST GRINSTEAD.

Charlwood Bros., London Road
Pledge, Walter, Ship Street
Rice, Chas.

EAST HOATHLY.

Hall & Hunnisett

HASTINGS.

Eldridge & Son, 11, Prospect Place
Harmon, C. & E., Mount Pleasant Road
Jenkins, P.
Moon & Garner Clive Vale
Phillips, J. & P., 7, High Street
Snow, D., London Road
Taylor, Bros., East Sussex Saw Mills
Vigor, G. (Shop-front Makers and Shop Fitters)
Warman, W. E. Vicarage Road
Womersley, A. D., Park Road

HASSOCKS GATE.

Betts, J.

HENFIELD.

Martin, J.

HORSHAM.

Dewdney Bros., Brighton Road
Peters, P., East Street
Rowland, Bros., Park Street

HURSTPIERPOINT.

Hollands, C. F.

LEWES.

Berry & Bussey
Card, H. & Son
Floyd, J., 71, North Street
Thorpe, J., East Street

LINDFIELD.

Anscombe, A.

LITTLEHAMPTON.

Snewin, J. H., High Street

NEWHAVEN.

Ashdown, H. & Sons, Chapel Street
Chapman, G. E., High Street
Knight, A., South Road
Novise Bros., Elphick Road
Woolgar & Son

ST. LEONARDS.

Cruttenden, H. E., Brittany House, London Road
Eldridge & Cruttenden 39, King's Road
Hughes, C., 19, East Ascent
Jenkins, P., 20, Cave's Road
Kenwood, C. J., London Road
Rodda, H. & T., 3, Western Road
Salter, T. 2, King's Road
White, A. H., Southwater Road
Woodall, F., 20, Kenilworth Road

SEAFORD.

Fears & Son
Morling, Chas.

UCKFIELD.

Cheeseman, C.

WORTHING.

Blaker, R. C., Chapel Street
Crouch, E., Montague Street
Jinkpen & Sons, Warwick Street
Patching, E. C., Chapel Road

WILTSHIRE.

AMESBURY, SALISBURY.

Cole, W. Q.

CHIPPENHAM.

Downing & Rudman
Light & Smith

DEVIZES.

Ash, H., Senr., Bridewell Street

HIGHWORTH.

Thomas, J., Market Place

EAST KNOYLE.

Howell, J.

MARLBOROUGH.

Hillier, B. High Street

SALISBURY.

Adey, W. H. 40, St. Ann's Street
Brown, E. S., Portland House, Wilton Road
Dawkins, T., Barford St. Martin
Dibben, J., 17, College Street
Hale, E., 73, Castle Street
Harris G., Dews Road, Fisherton
Jerrard & Stevens, 12, St. Mark's Terrace
Kite, H. J., 3, Wilton Road
Mitchell, C., Woodfalls, Downton
Webb & Co., Blue Boar Row, Endless St.
West, G., 78, Castle Street
Witt, E., 155, Fisherton Street
Wort, 59, Park Street
Young, W. J. & C. S., 76, Gigant Street

STRATTON ST. MARGARET.

Looker, H.

SWINDON.

Barrett, T., Newport Street
Williams, J., Devizes Road
Wiltshire, G., Bath Road

TROWBRIDGE.

Taylor, J.

WARMINSTER.

Gaisford, J.

WESTBURY.

Burgess, J., Station Road

WOOTTON BASSETT.

Flewelling, H., High Street
Lansdown, T., High Street

WESTMORLAND.

AMBLESIDE.

Backhouse, T.
Dixon, W.
Hawkrigg & Jackson
Newton, Thos.
Stalker & Son

KENDAL.

Compston, S. (Joiner, &c.)
Hine, T. & Son (Masons and Builders)
Hutchinson W. (Joiner)
Hutton, E. (Mason and Builder)
Nelson, E.
Pattison, A.
Thoms, D. (Mason and Builder)
Thwaites, J.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WINDERMERE.

Armstrong H. B (Plasterer)
Atkinson, Messrs. (Masons)
Latham & Dobson (Joiners)
Moore & Stut (Painters)
Pattinson, J H. (Plumbers)

WORCESTERSHIRE.

ALVECHURCH.

Furber

ASHWOOD BANK.

Huxley, G.

BRIERLY HILL.

Bennett, S. & Son

BROMSGROVE.

Brazier J., Worcester Street
Tilt, J., Birmingham Road
Weaver, W., Strand

BROUGHTON, near PERSHORE.

Panter, D., Drake's Broughton

CRADLEY.

Dorse & Son, Cradley Heath

DUDLEY.

Bate & Son, Wellington Road
Holland & Sons, King Street
Love & Flint, Cross Street
Nelson, W. & Son, Wellington Road
Webb & Round, New Street
Willetts, W., Old Hill, near Dudley

EVESHAM.

Espley, A.,
Taylor, F., Merstowe Green

HARTLEBURY.

Cook & Son

KIDDERMINSTER.

Binnian, J. & Son, Mill Street
Smith, H., Wolverley
Thompson, R. J., Park Lane

GREAT MALVERN.

Baker, O., Cowleigh Gate
Broad, T. Graham Road
Everal, J., Graham Road
Inwood J., Beauchamp Terrace
Lewis, J., The Link
Porter, W., Wells Road

OLD SWINFORD.

Ledbury & Co.

OMBERSLEY.

Brown, E.

REDDITCH

Hewins T. & Son
Surman, H., Oswald Street
Yeomans, T., Ipsley Street

STOURBRIDGE.

Freeman, G., Belbroughton, Wst. Stourbridge
Guest, J. & Son, Brettell Lane
North, W. Kidderminster Street

STOURPORT.

Vale, T.
Ward, J., High Street

TENBURY.

Howells, W.

WORCESTER.

Andrews, J., South Street, Blockhouse
Beard, J. H., Love's Grove
Bennett, W., St. Nicholas Street
Bourne & Son, Tything
Bourne, John, Spring Gardens
Bromage & Evans, 113, London Road
Compton, J., South Street, Blockhouse
Inwood, J., Shrub Hill
Kendrick, J., 28, Lowesmoor
Patrick, W., Bath Road
Stokes, H., Tybridge Street
Wilkes, R., St. George's Lane
Wood & Joseland, Butts
Wood, J. & Sons, The Butts

YARM.

Doughty, H.

WARWICKSHIRE.

ASTON, BIRMINGHAM.

ALCESTER.

Briggins, J.
Stanley, J., Broom

BARFORD.

Sheasby, W.

BIRMINGHAM.

Barnsley, J. & Sons, 102, Ryland Street
Bennett, Wm., Berners Street, Lozells
Biggs, J., Faun Street
Bissett & Sons, Colmore Row
Bloore, W., 120, Alma Street
Bowen, J., 17, George Street, Balsall Heath
Brown, E., Albert Street, Stockford
Chaffer, W. H., Warstone Lane
Charley, W., 50, Vaughton Street, South
Elvins, T., Naden Road, Soho Hill
George, W., Bristol Street
Giles, E., 10, South Road, Camp Hill
Gowing & Ingram, Belgrave Road
Hancox, W. H., 328, Monseley Street
Hopkins, W.
Hughes, Thos., Hockley
James, J., Grace Road, Sparkbrook
Jeffrey & Son, Forster Street, Lawley Street
Lond Thos., Selly Oak
Lilley & Evans, 147, Great Charles Street
Mills, T. & Son Leopold Street
Moffatt, J., 64, South Road, Camp Hill
Moorhouse, J. E., Westminster Road, Handsworth
Naden & Sons, 51, Livery Street
Parker, J., Conybere Street
Partridge, W., 238, Monument Road
Rowbothom, Thos., Coventry Road
Sapcote, W. & Sons, 90 & 91, Camden Street
Simple, Thos., Lionel Street
Smith, Thos., 21, Charlotte Street
Smith & Son, Great Tindal Street, Ladywood
Stafford, W., 271, Bloomsbury
Spokes, G. T., Sherlock Street
Surman & Son 24, Great Colmore Street
Taylor, S. Mill Lane, Bradford Street
Toft, W. J., 111, Monument Road
Trentham, G., Broad Street Corner
Twig, 7 & 8, Sherdore Street
Webb, W. & J., 256, Great King Street
Webb, J., 116 Villa Road, Handsworth
West, W. H., 17, Ludgate Hill
Whitehouse, B., 110, Monument Road
Woodward, H. J., Cox Street West, Balsall Heath
Whittall, W. J., 83, Lancaster Street
Wilson & Son, 164, Soho Hill, Handsworth

COVENTRY.

Cave, J., Little Park Street
Garlick, C., 130, Far Gosford Street
Golby, T. G., Earlsdon
Haham & Chick and, Earl Street
Haywood C. Junr., 23, Gosford Street
Heatherley Bros., Gosford Street
Hill C. G., 128, Much Park Street
Jeffs, J. Junr., Hood Street
Liggins, J., Spon Street
Makepeace, J., Bishop Street
Mayo & Son, 44, Much Park Street
Storer, G., Dale Street, Cope Street
Vale, S., Spon Street
Waters, A., Harnall Lane
Wincott, A. A., Hood Street
Worwood, J., 116, Much Park Street
Wootton, R., Jenner Street

FOLESHILL.

Isaac, J.

HARBORNE, near BIRMINGHAM.

Goodman, J., Station Road

KENILWORTH.

Ball, Castle End
Ball, W., Abbey Hill
Smith, E. & Son, Rosemary Hill

LEAMINGTON.

Bailey, T., Clarendon Avenue
Bloomfield, W. G. & Son, George Street
Bowen, R., Tavistock Street
Fell, J., Bedford Street
Harridence, J., Kenilworth Street
Lee, F. W., Guy Street
Rolf, J., 4, Clemens Street
Smallman, B., Russell Terrace
Smith, G. F. & Sons, Union Road, Milverton

RUGBY.

Foster & Dicksee, James Street
Lynnell, R. & Son, Railway Terrace
Parmell, Birmingham Street
Watson, C., Napton

SMETHWICK near BIRMINGHAM.

Harley, J., & Son
Marshall, G. H., Hawthorne Street

SOLIHULL.

Bragg Bros.
Deebank, J., & Son

STRATFORD-ON-AVON.

Callaway, J., Shottery Road
Eborall W.
Greenway, J., Ely Street
Greenway, W., Scholars Lane
Harris, J.
Ham, J.
Kennard
Kibler, G., Tiddington
Pine, W.
Whateley, Geo., Shottery Road
Wincote, W., Alveston

SUTTON COLDFIELD.

Jones & Lloyd

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

WARWICK.

Cashmore, J. H. & T., Smith Street
Chaplin & Sons, Smith Street
Robbins, W., Coten End
Tailiss, E., West Street

WELLSBOURNE, near WARWICK.

Kibler, J.

WOOTTON WAIVEN, near HENLEY-IN-ARDEN

Smallwood, J. & Co.

YORKSHIRE.

BARNSLEY.

Dyson, W., Kingstone Place
England, G., Summer Lane
Hinchliffe, H., Victoria Street
Lawson, C., Duke Street
Moore, A., Victoria Street
Robinson & Son, Eldon Street
Rymer, G., Dodworth Road
Smith, J., Gawber
Squire, S., Sheffield Road
Taylor, E. R., 155, Doncaster Road

BATLEY.

Baines, S. S., Dark Lane (Mason and Builder)
Brooke, H., Bradford Road (Joiner and Builder)
Chadwick & Son, Staincliffe (Joiners and Builders)
Crawshaw, S., Bradford Road (Plasterer)
Field, R., Branch Road (Joiner and Builder)
Goodall, C., Russell Street (Mason)
Jessop, G., Cross Bank (Plumber and Glazier)
Kaye & Seates, Old Mill Lane (Joiners and Builders)
Mortimer, J. & T., Carlinghow Lane (Mason)
Oldroyd, J. & T., Hanover Street (Masons)
Robinson, C. T. (Mason and Builder)
Senior, J. H., Wellington Street (Plumber)
Waller, S., Upper Road, Batley Carr (Plumber and Glazier)
Walshaw, J., Commercial Street (Plumber)

BEVERLEY.

Barnes, J., Minster Moorgate
Calvert, E., Wood Lane (Joiner)
Constable, J., Newbegin
Elwell, J. E., North Bar (Art Joinery and Carving)
Oxley, J., Walker Gate (Bricklayer)
Pape, G. & R., Eastgate
Sykes, T., Wood Lane (Bricklayer)
Whitton, M. L., North Bar Street

BRADFORD

Ackroyd, T., Manchester Road
Badgett, J., Idle
Beanland, J. & W., Bradford
Binns, W., 6, Henry Street
Burnley, T. & Co., Infirmary Street
Broxup & Son, Cross Lane, Great Horton
Birkby, H. & Son, Wyke
Clift, J., & Co., Leeds Road (Ironfounders)
Cordingley & Sons, Thorncliffe Road (Plasterers)
Deacon, J., Shipley
Dixon, B., Horton Lane (Plasterer)
Farnish, W., Norfield Place
Hammond, J. & J., Four Lane Ends
Haley, E. & W. H., Thornton Road (Ironfounders)
Haigh & Slater, Sisterhills Road (Plumbers)
Harland, E., Manor Row (Painter)
Hill, A., Spring Row (Slater)
Heap & Walker, Tyrrell Street (Ironfounders)
Holdsworth, W., Woodroyd Road
Haigh, T., Allerton
Hill, R., Westgate (Plumber)
Hill & Nelson, Edmund Street (Slaters)
Hustler, H., 62, Whetley Hill
Hobson, S. & Son, Idle, near
Humphreys & Moulson, Little Horton
Illingworth Bros., Thorncliffe Road
Jackson, S., Caledonia Street
Johnson, W., Bowland Street
Leggott & Co., Market Street (Ironmongers)
Lynn, J., Manningham Lane
Moulson, J. & Son, Bower Street, Manchester Road
North & Sons, Idle
O'Bank & Sons, Thackley, Idle
Oddy, S. & Son, Market Street (Painters)
Peel, H., Dudley Hill Road
Pratt, J., 37, Heap Lane
Putefield, T., Belle Vue Quarry
Scott, J. E., Undercliffe
Taylor & Parsons, Bank Street (Ironmongers)
Thornton, J., Leeds Road, Thackley
Thorp, J., Stephenson Fold (Plasterer)
Toothill & Balmforth, Spicer Street
Totty, W., Manningham, Victoria Terrace
Walton & Brear, Manningham Lane (Plumbers)
Wilkinson & Dawson, Bowland Street
Wilson, H., Forster Square (Ironmonger)
Wilson, J. & Sons, White Abbey Road
Wilkinson & Kellett, 20, Copley Street, Horton

BRIDLINGTON QUAY.

Rennard, J.

BRIGHOUSE.

Beckwith Bros. (White Smiths)
Bottomley, T., Railway Saw Mills, Rastrick
Bottomley, J. (Mason)
Brooke, W. (Plumber & Glazier)
Denham & Sons (Ironfounders)
Empstall, J. (Stone Mason)
Hipponstall, C. (Plasterer)
Lawson, J. (Plumber)
Smithies, J. (Slater)
Sykes, B. & Sons, Park Street (Joiners)

BROUGH.

Goodwill, T., South Cave

CALVERLEY.

Firter, W. (Joiner)

CLAYTON.

Booth, M., Fox Brow

CLECKHEATON.

Crossland, W., Westgate (Joiner)
Houldsworth Bros. (Masons)
Hirst, J., Moor End (Mason)
Isherwood, W., Westgate (Joiner)

DARNALL

Whittingham, T., Station Road

DELPH, via OLDHAM.

Broadbent, I.
Winterbottom, C.

DEWSBURY.

Brier, Sons, & Wilson, Saville Town
Chadwick, E. & Sons, Staincliffe
Coop, S., Clarke Street (Bricklayer and Asphalter)
Firth & Sons
Fothergill & Schofield, Batley Carr (Joiners and Builders)
Thompson, W. R. (Slater)

DONCASTER.

Anelay, W., Silver Street
Arnold, H. & Son, Printing Office Street
Athron & Gill, Nether Hall Road
Johnson, W., Printing Office Street
Marsh, Thornes
Wortley, B., Nether Hall Road

ECCLESHILL.

Richardson, J. (Slater)
Thornton, T. & A. (Slaters)

ELLAND.

Crowther, J. E., Porland Street
Wilson, J.

FEWSTON.

Patrick, T.

GOOLE.

Jackson Bros.

GREENFIELD.

Bradbury, T.
Byrom, A.

GRIMSBY.

Siminson, T., Wellow

HALIFAX.

Ackroyd & Mills, Gibbet Street (Plumbers and Glaziers)
Bancroft & Sons, Winding Road (Slaters and Plasterers)
Berry, J., New Bank (Ironfounder)
Binns, J., King Cross Street (Painter and Decorator)
Bolton, J., Gibbet Street (Plumber and Glazier)
Charnock, J., & Sons, Pellon Lane
Collins, J., Carlton Street (Slater and Plasterer)
Dyson & Son, King Cross
Fielding & Bottomley, South Parade (Joiners)
Furniss, E., The Edge, Greetland
Gaines, W. & Sons, Stannary Street Carpenters and Joiners)
Greenwood Bros., Mount St. (Concreters)
Hanson, J., Claremount (Carpenter and J[illegible])
Hitchin, I., King Cross Street
Holdsworth, J., Corporation St. (Plumber and Glazier)
Jenkinson, H., Queen's Road (Mason)
Kershaw, J., Hebden Bridge (Mason)
McKnight, J. S., Parkinson Lane
Milligan, W., St James' Road (Painter and Decorator)
Mitchell, T., Warley, near (Mason)
Naylor, E., Hammond St., Parkinson Lane
Naylor, J., Russell Street (Plumber and Glazier)
Oates, R., Claremount (Mason)
Pickles, J. & Son
Riley, B. & T. H., Adelaide, Greetland
Rushworth & Firth, New Bank (Slaters and Plasterers)
See & Son, Broad Street (Painters and Decorators)

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Stafford, R. P., King Cross Street (Plumber and Glazier)
Sutcliffe & Son, Sowerby Bridge (Masons)
Townsend, G., Gibbet Hill (Joiner)
Wadsworth, S. & Sons, 17 & 19, Carlton Street (Carpenters and Joiners)
Wilson, J. W., & Son, Gladstone Road (Masons)

HARROGATE

Birkenshaw, W., Frankland Road
Cluckley, J., Robert Street
Dickinson, D., High Harrogate
Dickinson, I. Mayfield Grove
Horner, J., Mayfield Grove
Holmes, G., Cold Bath Road
Linskill, T., Regent Parade
Rainforth & Hudson, Strawberry Dale
Simpson, D., Low Harrogate
Simpson, J., St. Mary's Road
Smith, A., Cold Bath Road
Topham, W., Walkers Road
Walls, D., Low Harrogate
Whincup, R., Franklin Mount

HESSLE

Frost, E. (Bricklayer)

HEADINGLEY

Wood, B., St. Michael's Road

HECKMONDWIKE

Allatt, J. B., Jeremy Lane (Mason)
Batley, J.
Brook, J. (Plumber)
Gledhill, H. L., Jeremy Lane (Plumber)
Granger & Cookson Jeremy Lane (Plasterers)
Greenwood, J. B. (Plasterer)
Horsfall, R., Mill Bridge, near
Horsfall, G., Mill Bridge, near
Mann, G., Jeremy Lane (Joiner)
Milnes, W. & T., Jeremy Lane (Joiners)
Oldroyd, W. (Mason)
Parker, W., Top of Jeremy Lane (Plasterer)
Preston, G.
Thornton, J. M., Top of Jeremy Lane (Slater)

HELMSLEY.

Todd, J. & E.

HIPPERHOLME.

Mitchell, S.

HOLMFIRTH.

Brown & Shaw, Ribbleden (Joiners and Carpenters)
Marsden, F. & Sons, Bingley Quarries, Holmebridge (Masons and Quarry Owners)
Shaw, J., Son & Co., Huddersfield Road
Thorp & Mallinson
Turner W., Underbank (Masons & Quarry Owner)

HORBURY, near WAKEFIELD.

Wainwright, J. (Mason and Builder)

HORSFORTH.

Whittaker Bros.

HUDDERSFIELD.

Bates, S., Lindley, near
Blakeley & Hollins, Fountain Street (Joiners)
Brook, M., Leeds Road North
Garter, G., Market Place
Graham A., Manchester Road
Graham, B. & Nephew, Moldgreen
Graham, B. & Sons, Folly Hall
Hirst, B. & Sons, Spring Street
Hollingworth & Son, Moldgreen
Holland, H., New North Road
Jowett, W. E., St. John's Road (Plasterer and Slater)
Kendal, S. (Painter)
Lockwood, W., Golcar, near
Mallinson, W. & Sons, Lockwood
Radcliffe, W. & Co., St. John's Road
Radcliffe, J. & Sons, St. John's Road
Ramsden & Marsden Paddock
Stead & Kaye, Viaduct Street
Stocks & Sons, Berry Row
Varley, J. & Son, Slaithwaite, near
Wood, T., Moldgreen (Mason)
Wood Bros., Stable Street

HULL

Bayes, T., Beeford
Beevers, R., St. Luke Street
Blackburn, F., 61, Peel Street
Bielby, F., St. George's Road
Brown, A., Holderness Road
Cammidge, T., North Frodingham
Colley & Levitt, Holderness Road
Darneley, A. J. & Son, Spring Street
Drury, J., Langdale Buildings, Beverley Road
Finch, G., Trippett Street
Garbutt, J. W., Linnæus Street
Goates, T., Brunswick Avenue, Beverley Road
Grasby, H., Cumberland Street
Hall, F., 56, Mayfield Street, Spring Bank
Harper, M., 41, Brunswick Avenue
Hatfield, H., Grinston Street
Houlton, G., 6, Baker Street
Houlton, J., Vicar Lane
Hockney & Liggins, Great Union Street
Hancock, J., Waterloo Street
Habbershaw, R.
Jackson, G. & Son, 36, Witham
Kirkby, R., North Ferriby
Liggins, H., Great Union Street, Drypool
Lison, W., Portland Street
Marsden & Hodson, Fish Street
Matthews Bros. Walker Street
Musgrave, B., Wilmington Road
Panton, G. H., Great Thornton Street (Mason)
Punnison, E., Little Queen Street
Richardson, R., Thomas Street
Robinson, D. R., Freehold Street
Skinner, J. T., Wright Street
Simpson & Malone, Great Thornton Street
Southern's Executors, 18, Wright Street
Stanley, A. W., Anlaby Road
Sweeting, F., Beverley Road

IDLE

Obank & Son

KEIGHLEY.

Greenhow & Sugden, Lawkholme Lane
Hird, T., Knowle Park
Holmes, W., Spencer Street
Moore & Lund, Beechcliff
Robinson, H. V., Enfield Street
Verity & Shuttleworth, Low Bridge Works

LEEDS.

Appleyard, Bros., Bramley, near Leeds
Atkinson, H. & Son, Carlton Hill
Armitage & Hodgson, Camp Road
Binns, J. E. & Son, Raglan Road
Burnel, G., Water Lane
Chandler, T., Tanfield, Bedale
Cross & Carter, Bowman Lane
Craven & Umpleby, Hartley Hill
Evans, W. Skinner Lane
Oakes & Son, Anchor Street, Hunslet
Franks & Evans, Skinner Lane
Gould & Stevenson, Hillidge Rd., Hunslet
Hannam, T., Raglan Road
Hobson, G., Skinner Lane
Hutton & Sons Albion Street
Hutton, W., Fulneck, near Leeds
Irwin, W. & Co., Burley Road
Judd & James, Joseph Street, Hunslet
Lax, W. & H. Rawson Terrace, Dewsbury Rd.
Lister, O., Ilkley
Longley Bros., Hunslet, Leeds
Mawson B., Barrack Street
Mounsey, W., Peel Place, Burley
Myers, C., Institution St., Woodhouse St.
Nicholson, W. & Son, 9, South Brook Street
Pickles, Bros., Neville Street
Pickard, J., 10, Dorrington Street
Puffett F., Church Street, Hunslet
Simpkiss, W., Joseph Street, Hunslet
Stather, Tonbridge Street
Thorpe, J. H. & Son, Bowman Lane, Hunslet
Tomlinson & Son, Front Row Victoria Rd.
Thompson & Son, Chapeltown Road
Varley, Burley
Walker, E., Tong Road, Upper Wortley
Wilby, J. & Son, Wellington Road
Wilson, J. W., North Street (Plumber)
Wilson, W. & Son, Headingley
Wood, T., Pudsey, near Leeds
Wood & Sons, St. Mark's Terrace
Wood, J., Cobourg Street
Wright, J. T., Hartley Hill

LIGHTCLIFFE, HALIFAX.

Crossley, Hovedge, (Mason)
Wawson, T. (Mason)
Woodhead, M.

LIVERSEDGE.

Cowburn, J., Millbridge (Joiner)
Drake, A., Millbridge (Mason)
Furniss, W., Hightown (Plumber)
Horsfall, G., Millbridge (Mason)
Lucas, T., Millbridge (Plumber)
Moore, G., Littletown (Joiner)

LUDDENDEN.

Crabtree, L. (Plumber and Glazier)
Alderson (Slater and Plasterer)

LUDDENDENFOOT.

Pickles (Mason)
Robinson (Carpenter and Joiner)
Alderson, J. & Son (Plumbers and Glaziers)
Robinson, J. (Slater and Plasterer)

MALTON.

Barnes, A., Cemetery Road
Brown & Oldfield, Low Street
Dodsworth, M. Yorkedsgate
Hodgson, T., Greengate
Prest, R., Wood Street, Norton
Wilson, W., Wood Street, Norton

MASBRO' ROTHERHAM.

Appleyard & Sons (Joiners & Builders)
Bywater, O. (Joiner & Builder)
Chadwick & Co.
Earnshaw, W. (Mason & Builder)
Hardy, W. & Sons (Timber Merchants)
Johnson, T. (Joiner and Builder)
May, G. H., (Joiner and Builder)
Newsum, H. & Sons (Timber Merchants)
Scott, J. & Sons (Masons and Builders)
Snell, R. (Mason and Builder)
Thorley, G. (Timber Merchant)
Thornton, W. & Son, 6, George Street (Masons and Builders)
Woodhead, G. (Joiner and Builder)

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

MELTHAM.

Moorhouse & Co., Golcar Brow
Pogson, E. & Co., Mill Moor

MEXBOROUGH.

Smith, G. H., Doncaster Road

MIDDLESBROUGH.

Allison Bros., Marsh Road
Braithwaite R., Hartington Road
Doughty D., 28, Milton Street
Johnson, J., 64, Acklam Terrace

MIRFIELD.

Barker & Clough, Easthorpe (Joiners)
Lewis, B., Stocks Bank (Plasterer)
Milner, W. & J., Lowlands (Masons)
Roberts, H., Knowle Road (Painter)
Walker, E., Station Road (Plumber)

MYTHOLMROYD

Kershaw, J. (Carpenter and Joiner)
Greenwood, G. (Plumber and Glazier)

NORTH ALLERTON.

Bratton, W., Bilsdale
Foggin, J. (Joiner)
Fowler, F. B. (Plumber)
Gibson & Smith (Plumbers)
Horner, E. (Plumber)
Peacock, R.
Willoughby, T. & J.
Wilson, J. (Joiner)

OTLEY, near KEIGHLEY.

Cawood, F., Gay Lane
Hillary, W. & Sons
Maston, T., Westgate
Maston, W., Westgate
Smith, A. & J.

OSSETT, near WAKEFIELD.

Horsnell & Heald (Joiners)
Lockwood, A. (Mason and Builder)

PICKERING.

Yearsley, T.

POOLE.

Kaye, S.

QUEENSBURY.

Firth, M., & Son

RAWDON.

Hagg, R. (Mason)
Trelford (Plumber)

RIPON.

Mitchell & Webster, Hecklar Houses

ROTHERHAM

Adams, G. (Joiner and Builder)
Fox, O. (Joiner and Builder)
Green, C., 4, Wharncliffe Street
Hodkin, J., Firbeck
Hutchinson, J. (Joiner & Builder)
Kirkby, W., South Anston
Ripley, A. T., Percy Street
Scrivens, H. (Mason and Builder)
Seiles, W., 35, Nelson Street
Slawson, C. H., Rotherham
Slawson, J., Rotherham
Snell, R., 93, Fitzwilliam Road
Wortley, J. Drummond Street (Joiner and Builder)

SALTBURN-BY-THE-SEA

Dickinson, T.

SCARBOROUGH.

Adamson, W. E., Castle Road
Barry, J., Westbrook Works
Bland, J., Aberdeen Walk
Bland, S., Bar Street (Plumber)
Jaram, J., Gladstone Street
Jowsey, W., Victoria Street
Maynard, D., Dean Street (Plumber)
Peacock, W., Pembroke House
Padbury, J. & Son, Trinity Works
Petch & Fox, Victoria Road

SELBY.

Foster, D., Millgate
Foster, H., Water Lane
Gregory, B., Burn near
Smith, J., Ousegate
Ullathorne, J., Millgate

SHEFFIELD.

Ashton, A., 41, Crookes Road
Ash, Son & Biggin, Tudor Place
Alflat, W., Grimesthorpe
Armstead & Vasey, Sharrow Lane
Bissett, W. & Sons, Gell Street
Brumby, H., Alderson Road
Carr, G., Carlisle Street
Chambers, J. & Son, Pond Hill
Chadwick, C., Victoria St., Glossop Road
Crooks & Son, Devonshire Street
Fidler, J., 8, Chesterfield Road, Eckington
Forsdike, W. & A., 34, St. Mary's Road
Grayson, C., 66, Broomhall Street
Hawley, T. & J., Penistone Green
Holmes, H., Hanover Street
Ingram, G., 188, Attercliffe Common
Longden & Son, 22, Neepsend Lane
Lister, J., Aston, Rotherham
Loxley, H. & Son, Corporation Street
Morton, J., 107, John Street, Bramall Lane
Powell, B. & Son, Cavendish Street
Proctor, J., Hillsbro'
Robertson, J., Broomhall Road
Smith, A., 200, Broomhall Street
Spink, J., Oxford Road
White, J., Pen stone Road

SHIPLEY.

Ives, W., & Co., Gateland Works

SOWERBY BRIDGE.

Sutcliffe, W., Tull Lane
Turner, J. Warley

STOCKPORT.

Meadows, T. & W.

SOUTH STOCKTON.

Smith, W., Mandal Road

SWINTON.

Bower, C.

TEKEY.

Cowling, W., Station Road (Joiner)

TIMBLE.

Dickinson, J

UPPER MILL, via OLDHAM.

Hinchliffe, J.
Whitehead, H. & E.

WAKEFIELD.

Atkinson, S. (Plumber, &c.)
Bagnall Bros., Stanley Road, Eastmoor (Mason and Brick)
Broadbent & Sons, Kirkgate (Painters)
Brooke, J., (Plumber, &c.)
Craven, E. L., Teall Street (Joiner)
Denholm, F. W. & Co., Drury Lane (Masons and Brick)
Driver, C., Arundel Street (Plasterer)
Elvey, E. A., Regent Street, Belle Vue
Flower, J. S. R. & W., York Street
Goodall, Lister & Goodall (Painters)
Ibbottson, Belle Vue (Joiner)
Illingworth, George Street (Slater)
Judge, W., (Joiner, &c.)
Kirk, E., Cheapside (Plumber)
Langton, Charlotte Street
Loyd, J., Bank Street (Joiner)
Rycroft, C. F., Park Street (Slater)
Storr, S., Teall Street
Squires, C., Primrose Hill (Joiner)
Summers G.
Tattersall, T. C. (Plasterer)
Turner, C. & Sons (Painters)
Woulds, J. W., Argyle Terrace, Belle Vue

WHITBY.

Brain, J., Silver Street
Chapman, W., Cliff Street
Clarkson, T. W., West Terrace, West Cliff
Gladstone, J., Normanley Terrace, West Cliff
Langdale, W. & Sons, Baxtergate
Lowther, J. W., Cliff Street
Russell, J., Church Street
White, J., Windsor Terrace
Winterburn, C., Skinner Street
Winterburn, F., Abbey Terrace, West Cliff

WYKE.

Birkby, H. & Son, Storr Hill
Holdsworth Bros.

YEADON, near LEEDS.

Firter, A. (Plasterer)
Flesher, J. & Sons
Hustler, W. (Joiner, &c.)
Lumb, T. (Plumber)

YORK.

Barry, T. P., Groves Lane
Bellerby & Son, Hungate Saw Mills
Biscomb, J. & T., Lime Street, Hungate
Biscomb, J., 7, Tower Street
Bowman, H., Layerthorpe
Clark & Ward, Foss Island
Danby, W., Thornton le Clay
Dent, R., Lord Mayor's Walk
Dockin, S., Micklegate (Plumber)
Dennison, W., 50 Marygate
Hughes, B., Bootham Crescent
Kay, W. S., Acomb
Kidd, G., Spen Lane
Keswick, J. & Sons, 56, Micklegate
Lee, J. W. B., St. Mary Row, Bishop Hill
Mansfield, G., Hart's Terrace, Layerthorpe
Milton, J. & Son, Walmgate
Naylor & Birch, Union Terrace
Parker & Sharp, Pleasholme Green
Rawling, T., St. Andrewgate
Simpson, G. & Son, Heworth
Simpson, J. & Son, Priory Street
Taylor, R. W., 10, Lawrence Street
Thorpe, W., Fulford
Volans, J., 13, Penley's Grove Street
Walker, G., Little Stonegate
Wilson, G., Walmgate

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

NAMES AND ADDRESSES OF ADDITIONAL BUILDERS IN ENGLAND.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

2.—*IRELAND.*

CO. ANTRIM.

CARRICKFERGUS.

Laverty, H.

CO. ARMAGH.

BELFAST.

Boyd, C., Lonsdale Street
Corry, R., 109, Donegall Pass
Corry, J. P. & Co., Princes Dock Saw Mills
Dixon, T. & Co., Clifton Street
Fitzpatrick Bros., 3 Great Victoria Street
Fulton, R. & H., 12 & 14, Cambridge St
Gabbey, W., Hope Street
Henry, J. & Son, Crumlin Road
Hewitt, I., 55, Mount View, Crumlin Road
Kerr, W., Lagan Village
Lowry, J. & Son, Great George Street
Martin, H. & J. & Co., Ormeau Road
McCammond, W. & Son, Duncairn Street
McCammond, T., Antrim Road
McLaughlin & Harvey, York Road
M'Millan, T., Ormeau Avenue
Smith, J., Whitla Street
Smith, J., York Road
Thompson, J. & R., Thompson Place

CO. CORK.

CORK.

Fitzgerald, E., Marina Terrace
Hegarty, D., Fish Street
Hill, S., Anglesea Street
Johnson, R., 13, South Mall
Lisk, J., Cove Street
McDonnell, J., Church Street
McMullen, B., Mary Street
O'Connell, W., Hanover Street
O'Flynn, E. & P., Watercourse Road
Thomas, S., North Abbey Square
Walsh, T. A., Anglesea Street

FERMOY.

Credon, D.
Hayes
Hurley, M.
Newslead, J.

CO. DOWN.

HOLYWOOD.

Nimick, W.

CO. DUBLIN.

DUBLIN.

Adams, S., 51, Bishop Street
Bain, J., 4, Harcourt Row
Beckett, J. & W., Ringsend Road
Bolton, S. H., 156, Rathmines Road
Breslin Bros., 27, Raymond Street
Collen Bros., 5, Clanwilliam Place
Connolly, T., 38, Upper Dominick Street
Cunningham, J., 3A, Lombard Street
Goodfellow, J. S., 17, Wentworth Place
Hall, T. & Son, 62A, Harcourt Street
Hammond, A. & Co., 13, Talbot Street
Larkin, P. S., 7, Sarsfield Quay
Lidwill, R. F., 21, Great George St., North
Martin, H. & J., 1 to 11, Grand Canal St. Upper
Meade, M. & Son, 152, Gt. Brunswick St.
Mellon, R. E., 14, Brighton Square, South Rathgar
Millard, B., 1, Grantham Street
Moloney, E., 112, Amiens Street
Moore, L., 45, Harrington Street
Moyers, G., Richmond Street
Pile, J. P., 83 to 97, Great Brunswick Street
Roberts, W. & A., Grand Canal Street
Sharpe, H., 19, Dartmouth Road
Wardrop, T. & Sons, 55, Gt. Brunswick St.

CO. GALWAY.

ATHERRY.

Broderick, J.

GALWAY.

Brady, J.
Cloherty, J.
Emerson, J.
Flaherty, J.
Halloran, P.
Semple, A
Simon, J.
Sweeney, U.

CO. KERRY.

KILLARNEY.

Nenan, J.

TRALEE.

Healy Bros.

CO. KILKENNY.

KILKENNY.

Cleere, W. K., Archer Street

CO. LIMERICK.

LIMERICK.

Cavenagh, J., Glentworth Street
Hayes, J. & J., Pery Street
Maher, P., Westland Road
Ryan, J. & Son, Thomas Street

CO. LONGFORD.

LONGFORD.

Fee

CO. ROSCOMMON.

ATHLONE.

Lyster, P. & Son, King Street

CO. SLIGO.

BALLISODARE.

Clarence, J.
MacDonagh, J.

SLIGO.

Kerr, G., William Street
Maguire, P.
Morris, P.
McAlynn, D.

CO. WATERFORD.

WATERFORD.

Hunt, M. & Son, Beresford Street

NAMES AND ADDRESSES OF ADDITIONAL BUILDERS IN IRELAND.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

3.—*SCOTLAND.*

ABERDEENSHIRE.

ABERDEEN.

Bisset, P. & Son, Willowdale Place (Masons)
Buchan, R., 136, Great Western Road
Dawson, W., 136A, Skene St. (Carpenters)
Farquharson, W., Hutcheon Street, West (Mason)
Fordyce, G., & Co., Hutcheon Street, West (Masons)
Gall & Walker, Richmond Street
Garvie, J. & Sons, 55, Rose Street (Carpenters)
Gauld & MacKenzie, Gilcomston Park
Gauld, E., Gilcomston Place
Henderson, J., 6, Summer Street
Ironside & Macdonald, 9, Well of Spa
Mitchell, A. & Co., 53, North Charlotte St. (Masons)
Milne, A., Nosefield Road
McAndrew, D. & Co., 120, Loch Street (Carpenters)
Pringle & Slessor, 7, Thistle Lane (Masons)
Ross, J. J., 57, Rose Street
Smith, L., Skene Square
Thomson, J., 12, Kidd Lane (Carpenter)
Watson & Robb, 44, Spring Garden
Watt & Clark, 23, Princes Street
Willox, J., Gilcomston Park (Mason)

TURRIFF.

Brady, Square (Painter)
Duguid, W., Clifton Road
Dutchie, C., Square (Plumber)
Fordyce, A. & Sons, Church Street
Fowlie, W., Clifton Road (Carpenter)
Gammack, J. & Co., Chapel Street (Slater)
Gibson, J., Chapel Street (Plasterer)
Gillespie, J., Low Hall (Slater)
Ingham, A., Square (Painter)
Massie, A., Gladstone Place
Melvin, S., Schoolhill (Plumber)
Paterson, J. & Son, Chapel Street
Ross, A., Church Street (Plasterer)
Tennon, W., Fife Street (Carpenter)
Watson, J., High Street (Painter)

ARGYLESHIRE.

BALLACHULISH.

McInnes, J.

OBAN.

Cowan, D., George Street
McDougall & McColl, Crescent Road
McDougall, J. & A., Combie Street
McColl & Graham, Hill Street
Mann, D. & A., Breadalbane Street
Menzies, W. & Sons, George Street
Stevenson, J., Firgrove

AYRSHIRE.

ARDROSSAN.

Boyd, J., Glasgow Street
McLean, J.

AYR.

Auld, W., Sandgate (Plumber and Slater)
Baird, J., 7, Dalblair Road
Bone, D., Elba Street (Plasterer)
Clark, D., 74, High Street
Currie, J., High Street
Fergusson, G., River Street
Highet, J. C., High Street (Plumber and Slater)
Highet, W. & Son, Fort St. (Plumbers and Slaters)
Hunter, A., 18, Dalblair Road
Jackson, J. & W., 23, Cross Street
King, A., 50, Sandgate
Kirkland, D., Midton Road
Leggat, J., Nelson Street (Plasterer)
McIlwraith, Cowan & Co., High Street
McLachlan, J., Dalblair Road
McLachlan, A. & Son, 64, Dalblair Road
Meikle, J. & D., 50, Main Street
Milligan, D. & J., 40, Kyle Street
Milligan, D., Smith Street
Mitchell, J., Wallace Street
Paton, W., Kyle Street
Paton, R. & Sons, Kyle Street
Stevenson, R., Viewfield Road
Wyllie, A., 80, Green Street

CUMNOCK.

McLetchie, W.

IRVINE.

Armour, J. & Son (Masons and Bricklayers)
Hall, T. (Plumber, Gasfitter, &c.)
Jack & Co. (Carpenters and Joiners)
Johnson, J. (Slater)
McLachlan, W. & Son (Masons and Bricklayers)
Parker, A. (Carpenter and Joiner)
Stobie, D. (Plasterer)

KILMARNOCK.

Anderson, R. & J., Station Road, Galston
Boyd & Forrest, St. Andrew Street
Calderwood, A., John Finnie Street
Muir, M., Bank Place
Rome, J., Woodstock Street

NEWMILNS.

Brown, J., Jameson Terrace
Brown, Lawson & Co., Main Street
Muir, J., Kilnholm
Muir, W., Jameson Terrace (Bricklayer)

SALTCOATS.

Young J.

BERWICKSHIRE.

ALLANTON-BY-CHIRNSIDE.

Gibson & Dickson
Patterson, J.

DUNS.

Clark, A., North Castle Street
Dods, R., Clouds Street
Duns, G., West End Cottage, Langton Gate Street

EARLSTON.

Rogers, W.

GAVINTON-BY-DUNS.

Cowper, J. J.
Spiers J.

GREENLAW.

Steele, H.

SWINTON-BY-DUNS.

Smeaton & Cook

BUTESHIRE.

ROTHESAY.

Cruickshanks, J. (Plumber)
Duncan, M. (Plasterer)
Hunter, W., Staffa Place (Mason)
Leckie, W. M. (Slater)
McCullam & Marshall (Joiners)
McMillan, D. (Joiner)
Morrison Bros. (Masons)

CAITHNESS-SHIRE.

CASTLETOWN, THURSO.

Bailie, D.

HALKIRK, THURSO.

Innes, W.

LYBSTER, WICK.

Sinclair, J. M.

THURSO

Bain P.
Bain, J., Calder
Durrand, G., Sinclair Street
Memson, G
Morgan, J & Co., Rose Street

WICK

Finlayson, Alex., Pulteney Town
Finlayson, Andrew, Pulteney Town
Millar, W. & J., Kinnaird Street
Miller, D., Pulteney Town
Owman, J., Sen., Papigoe
Reid, J.
Tait, J. & Reid, Eastbanks
Swanson, J., High Street

CLACKMANNANSHIRE.

ALLOA.

Carmichael, W. R. & J. (Tilemakers)
Cousin, G. & R., Ludgate
Gloag, J., Clackmannan Road
Smith, G. & Co. (Ironfounders)
Thomson, J., Ochil Street

TILLICOULTRY.

Phillip, J.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

DUMBARTONSHIRE.

DUMBARTON, N.B.

Barlas, W., Jun
McAuslan, J. & Sons
McLeod, W. & Sons
Mair A.
Munro, J.

HELENSBURGH, N.B.

John, J.

DUMFRIESSHIRE.

DUMFRIES

Armstrong, J., Dockhead (Joiner)
Crackstone, J. & Son, English Street
Currie, T, White Sands
Glover, J. (Plumber and Decorator)
Grierson, S., Charlotte Street
Halliday, J, 9, Queen Place
Haaston & Robinson Greyfriars Street
McLachlan, S. Friars Vermel
Nouston, J, Greyfriars Street
Thomson, D. & C. W., Rae Street
Thomson, R., Shakespeare Street
Thompson D. & C. W., Shakespeare Street (Joiners)
Twining, R., St Michael Street (Joiner)
Welsh, J., Catherine Street

MAXWELLTOWN.

Bruce, A., Commercial Street (Joiner)
Cairns, S. (Painter and Decorator)
Castin (Painter and Decorator)
Warnock, J. C., Learig Cottage
Williamson, J, Terreghs Street (Joiner)

EDINBURGHSHIRE.

BONNYRIGG.

Ketchen, R.

EDINBURGH.

Adamson, D., 42, Morningside Road
Annam, J., Dabry Road (Plasterer)
Barton, W. & Sons, 11, Forrest Road (Plumbers)
Beattie, W. & Sons, 29, Fountain Bridge (Joiners)
Bell, P. & Son, Pitt Street (Ironwork)
Binnie & Scott, Gilmore Park
Bruce, R & Son, 25, Greenside Place
Burn & Baillie, 63, Hanover Street (Plumbers,
Campbell, W & Son, 55, Torphichen St. (Plasterers)
Cook & Co., Ltd., Roseburn St. (Heating Engineers)
Colville, A., 20, Mayfield Road (Joiner)
Davidson & Chisholm, 26, Torphichen St.
Drysdale & Gilmour, 236, Leith Walk
Gerrard, W, 26, Ivy Terrace
Gilroy, G. & Son, 80, Dundee Street (Joiners)
Grieve N., Washington Lane (Joiner)
Gunn, W., Washington House, Daly Road
Greig, D. & Son, 3, Spitalfield Crescent (Joiners)
Grisne, N., Washington Lane (Joiner)
Hay, J. & C, 97, Warrender Park
Hastie & Sons, Canning Street
Kirkwood, W. & J., Annandale Street Lane (Joiners)
Lennox, W., 26, Torphichen Street (Plasterer)
Mackintosh, H., 47, Warrender Park Road
Macdonald, J., 3, Dundas Street (Plumber)
McLeod, N., 25, Polwarth Terrace
McAndrew, C., 18, Chapel Street
McGregor, D. & J., 9, Barclay Place
Mekie, D., 36, Polwarth Gardens
Melrose J., 19, Bonnington Road
Mitchell, J. & Son Heriot Hill
More & Rutherford, Albany Street Lane (Plumbers)
Morrison & Hume, 13, Drumsheugh Place (Plumbers)
Muirhead, J., 7, North St. Andrew Street
Montgomery, H. T. & R., North Merchiston Avenue (Joiners)
Paterson Bros., 234, Causeway Side
Paterson, H. & Sons, 5, Elm Row (Plumbers)
Pearson, T., Dabry Road (Plasterers)
Rendall & Pottinger, Christian Bank
Robertson & Cairns, 31, Nicolson Street (Plumbers)
Roberts, G., 67, Haymarket Terrace
Serard, W, 25, Ivy Terrace
Shillinglaw, R. & Son, 62, Pitt Street (Joiners)
Sinclair, P. & Son, Bryson Road
Slater, J, 71, Albert Street (Mason)
Smith, W., 133, West Port
Smith, W. & Sons, South Oxford Street (Joiners)
Souden, J, 5, Spottiswoode Street
Stevens, D., 15, Howe Street (Plumber)
Stewart & Rae, 12, South St Andrew Street (Plumbers)
Stuart & Co., 8, Torphichen Place (Plasterers)
Sutherland, D & Sons, 62, Inverleith Row (Joiners)
Thorburn, R & Son, 86, Buccleuch Street
Tweedie, R. & Co., 6, Gillespie Street
Walker, J., 24, Morrison Street
Watherston, J. & Son, 29, Queensferry St. (Joiners)
Watson, W., Murane Place, Leith Walk
Watson, W. & Sons, 18, Morningside Road
White, A., 20, Grove Street
White, J., 10, South St Andrew Street (Plumber)
Younger, J., 65, Leonard Street

LEITH.

Anderson, S, Coburg Street (Slating and Tiling)
Baxter, W, Dock Street
Hadden & Son, Constitution St. (Painters)
Henderson & Wilson, Charlotte St. (Joiners)
Liddle, R., Constitution Street
Melrose, J., Bonnington Road
Ogilvie, A Duke Street (Slating and Tiling)
Saunders, W M, Mitchell Street (Joiner)
Scott & Davie, Morton Street (Plasterers)
Shanks, R., Ferry Road
Sutherland, J. S., Charlotte St. (Plasterer)
Tait, A. Constitution Street (Painters)
Traill, R. & Co., Bonnington Road (Ironwork)
Ward, H., Coburg Street (Plumber)

MUSSELBURGH.

Bisset, R. & Sons, Millhill (Masons)
Dickson, W., Millhill (Joiner)
McEwan, A. & P., Grove Street (Slaters)
Ness, D., High Street (Plumber)

MURTHLY-BY-PERTH.

Duncan, W & C. (Masons)

ELGINSHIRE.

ELGIN.

Allan, A., Queen Street
Dunbar, A. & R.
Forsyth, D, Cullard Street
Watt, A. & W., Seafield and Moray St.

FORRES.

Laing, A.

FIFESHIRE.

ST. ANDREWS.

Carstairs, A. & J, Argyle
Cunningham, A., Greenside Place
Harris, T, Kinnersburn
Law, H., South Street
Liddell & Lowden, North Street
Ness, W., South Street

STRATHKINNESS-BY-ST. ANDREWS.

Thin, D.

FORFARSHIRE.

BROUGHTY FERRY, near DUNDEE

Bennet & Taylor, Lawrence St. (Masons)
Brown, J., 60, Brook Street (Plumber)
Dick, T S.
Gray, W., Brook Street (Plumber)
Lorimer, P., 176, Brook Street (Plumber)
McLeod, R., King Street (Plumber)
Murray, W., Brook Street (Plumber)
Scott, J.

BRECHIN.

Baxter, J., Park Road
Black, W., & Son, Clerk Street (Joiners)
Bruce, W., Southirk Street (Joiner)
Coutts, J., Union Street (Joiner)
Crabb, J., Southirk Street
Crocket, A, Andover Cottage, Montrose St.
Cuthbert, G., Union Street (Plumber)
Dures, J, Damacre Road (Joiner)
Farquharson, G., Channovy Wynd (Plasterer)
Gibson, J., Southirk Street (Plasterer)
Kinnear, J. & Son, Market St. (Plumbers)
Middleton, E & Son, Market St. (Plumbers)
Ogilvie, G, Montrose Street (Joiner)

CARNOUSTIE.

McKay, D, Sea Lane (Plumber)
Robertson & Black, Dundee Street (Masons)
Watt & Slynd, East Path (Joiners)

DUNDEE

Adam, J. & Son, 15, Park Place
Alexander & Son, 25, Brown St. (Slaters)
Anderson, W, Esplanade
Bain & Ramsey, 20 Watt Street (Joiners)
Baxter, J, Soapwork Lane (Plasterer)
Brown, D, 55, South Tay Street (Plumber)
Brown, J. & Son, 15, Main Street (Masons)
Brownlee, W & R., 52, Smalls Wynd
Bremner, A., 9, Patons Lane (Joiner
Bruce, J, Prospect Place, Lochee (Mason)
Buttar, A., 31, Hawk Hill (Slater)
Cable, T, 68, Wilson Place, South Road, Lochee
Clarke, D. W., 51, North Wellington Street (Joiner)
Crighton, J, 111, Cowgate (Plumber)
Dargie, J & W., 134 Strathmartine Road (Masons)
Doig, J., 39, Wellgate (Joiner)
Duncan, A., 9, West Bell Street
Farquharson, J & Sons, 36, Barrack Street (Plumbers)

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

Fyffe, J., 95, Nethergate (Plumber)
Fyffe, J. W. & Co., 14, Bank St. (Slaters)
Fyffe, W., 30, Blackness Road (Slater)
Garvie & Farquharson, 46, Balgay Street (Joiners)
Gauld & Laburn, 61, Constitution Road (Slaters)
Gentle, J., 62 Commercial Street (Mason)
Gregory, J. & Son, 38, Tay Street (Joiners)
Hay, J. & C., 14, Long Wynd
Hodge, D. 184 High Street, Lochee
Hood, D. 64, Victoria Road (Plumber)
Kidd, D. & Son, 20, Mid Street
Kidd, P. & Son, Armfield Street
Kydd, R. P., 98, Albert Street (Joiner)
Laing, R., 82, High Street (Mason)
Laburn, J., 27, Constitution Road (Plasterer)
Laburn, J. & Son, 2, Dallfield Terrace (Slaters)
Laburn, J., 26, Bellfield Street (Slater)
Lawless, M., 22, Hean's Lane (Plasterer)
Lickely, R., 220, Perth Road (Joiner)
Lindsay, J., Soapwork Lane (Slater)
Macaulay, T., 6, Park Place (Joiner)
Mackie & How, 11, Caldrum Street (Joiners)
Martin & Gibson, 22, Bell Street (Plasterers)
Martin, D., 73, Victoria Road (Slater)
Mitchell, W., 69, Cowgate (Plumber)
Mitchell, D., 90 to 94, Seagate (Plumber)
McNab & McRostie, 49, Forebank Road (Joiners)
McBeth, D. & Son, 20, Raglan Street (Plasterers)
McRitchie, A., 29, Temple Lane (Plasterer)
Nicoll, A., 10, Cleghorn Street (Mason)
Norwell, W., 92, Commercial Street (Painter)
Nucator, P., 78, Bell Street (Plumber)
Ogilvie, A., 59, Constitution Rd. (Plasterer)
Overstone, J., 12, Ward Road (Plasterer)
Philip, W., Jun., 163 Seagate (Joiner)
Pollock, J., 9, Ogilvie's Road (Joiner)
Porter & Jamieson, 18, South Union Street (Painters)
Powrie, J., 85, Hawkhill
Ramsey, D. & Co., 29, Trades Lane (Plasterers)
Ramsey & Reid, 31, Wellgate (Slaters)
Robertson, J., 128, Princes Street (Plumber)
Scott, J., 130, Lochee Road (Joiner)
Shaw, J. F., 5, Lowdens Alley (Joiner)
Sheach, R., Jun., 28 Meadowside (Mason)
Stephenson, W., 30, Guthrie Street (Mason)
Stephenson, W., Ladywell Place
Stevenson, L. K., Ladywell Place (Mason)
Stewart, A., 9 Sea Wynd (Joiner)
Stewart, J., 6, South George Street (Joiner)
Stocks, T. C., 26, Crescent Lane (Joiner)
Storrier, A., 241, Hilltown (Slater)
Whitton, A. A., 71, Victoria Road (Plumber)
Will, A., 27, Yeaman Shore (Mason)
Wyld, R. P., Albert Street (Joiner)

FORFAR.

Adamson, W., Headingplace Stone
Cargill, J., Canmore Street
McLean, J., 56, North Street
Watherston, J., 57, Glamis Road

GLOMIS.

Johnston, J.

MONTROSE, N.B.

Brown, A., John Street (Mason)
Craigie, J. & W., Balmain Street
Fettis & Steven, Lower Hall Street (Joiners)
Ford, J. & Son, George Street (Masons)
Henry, W. & Sons, Mill Street (Joiners)
Hird, J. & Son, Panmure Row (Joiners)
Raitt, J. (Joiner)
Reid & Burnet, George Street

NEWTYLE.

Gray, J. & Son (Masons)

HADDINGTONSHIRE.

DUNBAR.

Cunningham, P. & G.
Ritchie, R.

TRANENT.

MacWalter, T., Ivy Cottage

INVERNESS-SHIRE.

INVERNESS.

Alexander & Macdonald, 37, Innes Street
Anderson, A., Dempster Gardens
Black & Sons, Academy Street
Cameron, P., Crown Street
Cameron, H., 29, Academy Street
Campbell, J., Rustic Cottage, Addross Place
Ellis, J.
Fowler & McLennan, 9, Glebe Street
Fraser & Macdonald, Kenneth Street
Gallie, C., Tanners Lane
Junor, A., 6, Friars Place
Macdonald, T., Hilton
Macdonald, D., Bridge Street
Mackay & Maclean, Castle Street
McKenzie, A., Inver Cottage, Kenneth Street
Noble, A., Duncraig Street
Robertson & Gillies, Longman Road
Russel, J., Church Street
Tulloch, J., Academy Street

KINGUSSIE.

Macdonald, J.

KIRKCUDBRIGHTSHIRE.

DALBEATTIE.

Clark, R., John Street
Clark, W., John Street
Hyslop, J. & S., Spottis Mill
Lindsay, A. R. & J., Albert Street
Nish, D. M., Station Road
Wilson, R., High Street

LANARKSHIRE.

AIRDRIE.

Bell, A. (Plasterer)
Brown, J. (Painter)
Connor, J. (Painter)
Eadie, R., Graham Street (Carpenter and Joiner)
Henderson, W. (Slater)
Londen, T., Victoria Saw Mills
McCracken, R. (Bricklayer)
Paterson, R. & Sons, Chapel Street (Masons)
Rankine, D. (Plumber, Gasfitter, &c.)
Shanks, W. & Sons, Fruitfield Saw Mills
Spence, J. & Sons (Plumbers, Gasfitters &c.)
Thorn, M. & Co. (Slaters and Plasterers)
Watson, J. & J., Victoria Place (Masons)

COATBRIDGE.

Brown & Gilchrist, Muiryhall Street
Bruce, J., 47, Burnbank Street
Gilchrist, J., Portland Street
Gilchrist, T., Casie Cottage, Colt Terrace
Mason, A., Church Street
Mills, J. & R., Station Road, Langloan

Murray, W. & P., 42, Bank Street
Purdie, W., Greenhill Terrace
Symington, D. K. & H., West Canal Street
Symington, H. & Sons, Dunbeth Road
Shaw, G., 13, Water Street
Thomson & Wood, Buchanan Street
Waddell, J., Sunnyside Street
Wallace & Millar, Dunbeth Road

GLASGOW.

Anderson, R., 190, Dunbarton Road
Anderson, W. & P., Rothwell Street
Anderson, A. & R., 110, North Hanover St.
Anderson & Henderson, 75, Waterloo St.
Barlos & Co., Ruthven Street
Bathgate, H. S., Duke Street (Plasterer)
Bell, Hornsby & Co., 197, Pollokshaws Rd.
Brown, T., 193, Rotten Row
Bruce, A., 18, Clarendon Street
Bruce, Arch., 73, Cathedral Street (Plumber)
Connell, J., 1A South Coburg Street
Cowan, W. & Sons, 95, Bishop Street, Port Dundas
Crone, J., Rutherglen
Devlin, J., 11, Bothwell Street
Duncan, J., 2, Willowbank Crescent
Eadie, A., 280, Cathcart Road
Ferguson, A.
Ferguson, G., Gardner Street, Wright
Gibbon, E., 15, Henrietta Place
Gibb, R. & Sons, 49, Sword Street
Gray, C. & Son, 18, Paul Street
Gray, A. & G., 30, Bath Street
Green & McCullum, 11, Bothwell Street
Guthrie & Co., 6, Cumberland Street, W.
Henderson, M., 4, Grant Street
Herbertson, J. & Sons, 85 Bedford Street
Herbertson, J. & Co., Coburg Street (Joiners)
Hutchison, D. T., 245, St. Vincent Street (Plasterer)
Hutcheson & Grant, Napiershall Street
Jardine, J.
Kay, T. & Co., 21, Cathedral Street
Kinnear, Moodie & Co., 27, Alexander St.
Lamb, T., 220, Parliamentary Road
Lightbody, W., 42, Sidney Street
Maben & Co., 65, Eglington Street
Marshall, A. G., 35, Pitt Street
Melvis, D., 77, Dumbarton Road, Patick
Milne, J. & Co., 111, St. Vincent Street
Miller, J., 18, Leven Street, Pollokshields
Morrison & Mason, 21, Clyde Place
Muir, A. & Sons, 400, Eglinton Street
Murdoch, R., 19, Commerce Street
McAuley, J., 51, Forth Street, Pollokshields E.
McCall, W. & Sons, 54, John Knox Street
McCord, R., 54, St. Enoch Square
McCallum, D., Jun., 140, Bothwell Street
McFarlane, A. & Son, 81, Cathedral Street
McGregor, W. and Son, 40, Grindlay Street
McTaggart, H., 60, Mill Street
Paterson, J. & Son, 522, Pollokshaws Road
Parker, J., 60, Bluwale Street
Playfair, J., St. Mary's Lane
Renwick, J., 41, Lilybank Gardens, Hillhead
Ross, G.
Shaw, W. & Son, 44, Wallace Street
Shannon, P., 182, Trongate
Sinclair, J. P., 31, McFarlane Street
Smith, P., 8, Mason Street (Monumental Sculptor)
Smith, G. B. & Co. (Gate and Fence Makers)
Steven, W. & Sons, London Road (Bricklayers)
Stewart, A. & T., Maxwell Road
Thaw & Campbell, 11, East Miller Street
Watt & Wilson, 93 Hope Street
Watson, J. & Son, 112, Bath Street

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

GOVAN.

Hamilton, Marr & Co.

HAMILTON.

Brown & Henderson, Portland Park
Hamilton C., Parrell Cottage
Purdie, J., Burnbank Road
Turner, J., Portland Place

HIGH BLANTYRE.

Warnock & Walker

LENZIE.

Turnbull, G., Wright

MOTHERWELL.

Park, T. & R., Brandon Street

THORNLIBANK.

Cameron & Dalglish

UDDINGSTON.

Mackie, W (Slater)
Morton, J. (Mason)

LINLITHGOWSHIRE.

LINLITHGOW.

Brock, J.

NAIRNSHIRE.

NAIRN.

Squair, J.

PERTHSHIRE.

BLAIRGOWRIE.

Butchart D, George Street (Mason)
Craigie, W., George Street (Slater)
Doig, T., Rattray (Joiner)
Duncan, T., Rattray (Mason)
Kidd, R., 1, High Street (Plumber)
McRitchie, D., Mitchell Square (Joiner)
Steven, T., 2, Newton Place (Joiner)

COUPAR ANGUS.

Adam, J, Hill Street (Joiner)
Reid, D., Hollyburton (Mason)

PERTH.

Annan, J. & Son, Princes Street (Plasterers)
Ballantine, J, 47, Canal Street (Joiner)
Bell, A Canal Street (Slater)
Beveridge, A., New Row (Mason)
Brand, R. & Son, West Mill Street (Masons)
Buchan, J, King Street (Slater)
Davidson, A., 7, New Row (Plumber)
Fraser & Morton, South William Street (Masons)
Frew, W & Sons, 6, Mill Street (Plumbers)
Hay, J. & Son, 28 and 30, County Place (Joiners)
Johnstone, P. & Sons, Cow Kennel (Joiners)
Mackie, D. & Co, 22, Cow Kennel (Plumbers)
McCurrach, C. & Son, 46, Victoria Street (Masons)
McKay, J & Son, 7, Kinnones Street (Plasterers)
McLeish, J, 15, Mill Street (Plumbers)
Peebles, J, 32, York Place (Plasterer)
Puller & Falconer, Victoria Street (Joiners)
Reid, P., 48, Milne Street (Slater)

RENFREWSHIRE.

BRIDGE OF WEIR.

Dalzell, R. B.
Woodrow, R.

GREENOCK.

Agnew, J.
Aitkenhead, R. & Sons, 30, South Street
Crawford & Fulton, Terrace Road
Macpherson, D. K., 3, Newton St. (Slater)
McJannet, J., 62, Inverkip St. (Plumber, &c.)
Ramsay, G. A, 16, Nicholson Street
Steel, W., 35, West Stewart Street
Tannock, Q, 5, Sir Michael Street (Plasterer)
Tosh, D., 3, Brougham Street (Slater)
Whitelaw, A. & Co., 76, Drumfochar Road (Bricklayers)

JOHNSTONE.

Jaffrey, W. & Sons, Roselea Place
Jaffrey, D & Sons 14, Graham Street

PAISLEY.

Barclay, J, Christie Street
Bett, D, 41, Wellmeadow (Painter)
Blackwood, M.
Bowes, J., 1, Park Terrace, Underwood Road
Bowie, T. C. & Co., 15, Gilmour Street (Painters)
Bruce, A., Underwood Lane
Bryce, J., 10, Hunter Street (Joiner)
Bryce, J. & Co., 69, Broomlands
Cowan & Stewart, 42, High Street (Painters)
Craig, A., 27, Back Sneddon Street (Joiner)
Fraser, J., 84, New Sneddon Street (Plasterer)
Gillespie, J., 84, New Sneddon Street (Slater)
Gillespie, W., 82, New Sneddon Street (Slater)
Girdwood, R. & A., 28, Broomlands (Joiners)
Hadda & Robertson, Gordon Lane
Hunter & Gondie, Canal Street (Plumbers)
Hutchison, D. T., East Buchan Street (Plasterer)
Kerr, G., 28, Orchard Street (Joiner)
Kilpatrick, J. & Son, Dyers Wynd (Plumbers)
Kirk, J., 29, Wellmeadow Street
Millar, W, 38, Causeyside (Plasterer)
McDonald, J, 97, George Street
McGhie, W., 35, Great Hamilton Street
McInnes J. & W., Lady Lane (Joiners)
Robertson, G., 4, New Sneddon Street (Plumber)
Shaw & Stewart, 51, High Street (Slaters)
Taylor, W, 12, Lady Lane
Wallace, Connel & Co, 8, Gilmour Street (Plumbers)
Wallace, C., 23, New Smith Hills (Slaters)
Watson, D, 12, Wellmeadow
Wilson, R., 20, Greenhill Road

ROSS-SHIRE.

DINGWALL

Bain & Maclennan, Canonbridge
Cumming, C & Son, Mason Lodge
Harrow, D., Strathpeffer
Macdonald, W., Tulloch Street
Maclennan, W, Tulloch Street
Macintosh, D., Fairburn
Maclean, W., Muir of Ad
Macrae & Maclennan, Canonbridge
Martin & Fraser, Hill Street
Murchison, J, Trinity Buildings
Ross & Maclennan, Strathpeffer
Tolmie, J. & W, Canonbridge

INVERGORDON.

Ross, J.

ROXBURGHSHIRE.

GALASHIELS.

Hall, J. & J.
Hall, R & Co
Herbertson, A & Son

HAWICK.

Brown, T., 47, High Street (Plasterer)
Brunton, J, Round Close (Carpenter, &c.)
Davidson, W. & Sons, Croft Road (Plasterers)
Grieve W & Co., 16, Buccleuch Street (Slaters, &c)
Guthrie J & Sons, 61, High St (Slaters &c)
Hobkirk, W. & T., 3, Allars Crescent (Carpenters, &c)
Inglis A & Sons, Bridge Street (Carpenters, &c.)
Marshall, J. & Sons, Lothian Street (Masons)
Murray, J., 3, Union Street (Slater)
Scott, A., Union Street
Scott & Thompson 1 Shirrig Bank (Masons)
Scott, A., Bourtree Place (Mason)

STIRLINGSHIRE.

CAMELON-BY-FALKIRK.

Abercrombie, J. (Mason)
Knox, J. (Joiner)
McNeill, C. (Joiner)
Scott, J. & W. (Masons)

FALKIRK.

Bishop, R, Pleasance (Bricklayer)
Brown, R. (Plumber)
Cockburn, W. G. (Joiner)
Colquhoun, R, Grahamston (Bricklayer)
Cowan, P (Joiner)
Dalziel, W, Parkfort (Mason)
Draper, D. (Plumber)
Drysdale, R, Grahamston (Joiner)
Forgie, J. (Joiner)
Gardner, J, Orchard Street (Mason)
Gardner, Jas., Garrison Place (Mason)
Gibson, R. (Bricklayer)
Gibson & Gray, Bainsford (Joiners)
Happer, J. (Slater)
Lamb, J. (Slater)
Larn, J. & R. (Joiner)
Main, J. & A. (Joiners)
Marshall, W. (Joiner)
Maxwell, J., Meeks Road (Bricklayer)
Miller, J., Grahamston (Plasterer and Slater)
McGregor & Son (Slaters)
McNair, D. (Plasterer)
Sanderson, W. & Son, Meeks Road (Masons)
Wallace & Connell (Plumbers)
Walker, J (Slater)
Weston, W., Grahamston (Joiner)

LARBERT.

Reid, J & A. (Masons)
Reid, A. & R. (Masons)

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

STIRLING.

Bannigan & Fotheringham, St Marys Wynd
Burt & Simpson, Port Street
Currie, J., Baker Street
Gourlay, W , The Craigs
Govan, J , Wallace Street
Headridge, A. & J., Causewayhead
Kemp, A., Dumbarton Road
Ronald, J., Allan Park
Short & Fairful, The Craigs

ORKNEY ISLANDS.

KIRKWALL

Baikie, S. & Son, Junction Road
Corsie, J , Junction Road
Firth, W., Victoria Street
Leonard & Park, Junction Road
Peace, W. B & Son, Junction Road

STROMNESS

Baikie, S., Jun , North End (Builder)
Robertson, W. (Mason)

SHETLAND ISLES.

LERWICK.

Aitken, J. M , Commercial Road
Aitken, C. W., Burgh Road
Douglas, M , Market Street
Irvine, J., Tingwall
Isbister, W., Market Street
Sinclair, H , Commercial Street
Sinclair & Hardie, Commercial Street
Youngclouse, J., Market Street

NAMES AND ADDRESSES OF ADDITIONAL BUILDERS IN SCOTLAND.

From the collections of Sydney Living Museums / Historic Houses Trust of NSW

4.—WALES.

ANGLESEY.

BEAUMARIS.

Jones, W. R., Castle Street

HOLYHEAD

Williams, W., Kingsland Saw Works
Williams, W., Valley

LLANGEFNI.

Parry, L., Boofordd

MENAI BRIDGE.

Owen, D., Glyn Garth Post Office
Parry, E.

BRECKNOCKSHIRE.

HAY.

Powell, E., London House
Price, J., Red Lion Street
Price, T., Brook House
Webb, R., Blue Boar Tavern

CARDIGANSHIRE.

ABERYSTWITH.

Williams, R., New Street

CARDIGAN.

Edwards, W., Moor Street
Lloyd, D., Pinglais Road

CARMARTHENSHIRE.

BURRY PORT.

Williams, W. T., New Street

CARMARTHEN.

Davies, H., Elston Terrace
Davies, W., Union Street
Evans, W., Fishpond House, Waundew
Jones J. & D., Richmond Terrace
Morris, T., Water Street

PEMBREY.

Griffiths & Christopher
Nealiphant, H., Commercial

CARNARVONSHIRE.

BANGOR

Humphreys, T. J., Mount Street
Jones, W., Mount Street
Parry, W. & Sons, Caellepa
Roberts, J., 135, High Street
Thomas, W., Garth
Williams, R. & J., The Crescent, Upper Bangor
Williams, E., Garth Road
Williams, W. F. & Co., 224, 226, 228, High Street (Gas and Hot-water Fitters, &c.)

BORTH PORT MADOC.

Humphrey, E.

BONT NEWYDD.

Jones, R., Tyddyn den

CARNARVON.

Hughes, T., Cwm-y-Glo
Hughes, J., Uxbridge Square
Jones, I., Groeslon, near Caernarvon
Morris, O., 11, Pool Lane
Parry, E., Segontium Terrace
Roberts, J., 14, Hill Street
Williams, R., Bank Quay
Williams, D., Turkey Shore
Williams, J., 19, Market Street

CRICCIETH.

Jones, L., Maes
Jones, W., Ormsby Terrace
Jones, R., Corporation Terrace
Parry, O., Railway Inn

LLANDUDNO.

Conway, R., Mistyn Street
Jones, T., South Parade
Owen, T. & J., Gloddaith Street

MORFA NEVIN.

Jones, G., Penrhos

PENMAENMAWR.

Evans, E., Bodavon
Hughes, J., Grosvenor House
Roberts, R., Brooke Cottage

PENYGROES.

Roberts, G., Market Street

PORT MADOC.

Jones, W., Snowdon Street
Jones, W., Madoc Street
Williams, G., New Street

PWELHELI.

Jones, J., Salem Terrace
Jones, W. & R., Ala Road
Roberts, S., Aberuch

LLANWNDA.

Jones, D., Menai View

DENBIGHSHIRE.

DENBIGH.

Bartley, S., Henlean Place
Jones, I., Town Hill
Roberts, J. S., Bridge Street

JOHNSTOWN (RUABON).

Jenkins & Jones

LLANGOLLEN.

Evans, E.
Evans & Morris, Parade Street
Price, J.
Roberts, M., Berwyn Street

LLANRWST.

Jones, J. B.
Parry, S.

RHOSTYLLEN.

Davies & Son

WREXHAM

Bradshaw & Davies, Gwersyllt
Davies Bros., 2, 3, 4, and 5, Hill Street
Hughes & Owen, Penybryn
Johnson, H. C., King Street
Owen, B., Penybryn
Samuel, W. E., Market Street

FLINTSHIRE.

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Reney, T. J.

MOLD.

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Probert, E. C., Hope
Roberts, R., 64, New Street

GLAMORGANSHIRE.

ABERDARE.

Morgan, J., Monk Street

BRIDGEND.

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Jenkins, C. & Son, Saw Mills and Steam Joinery Works
McGaul, W., Quarrella House
Preece, E., Cowbridge Road

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Anderson, M. & W., 9, Christina Street
Beames, G., 16, Violet Row
Billings, J. E., 28, The Parade
Bird, C., 165, Cowbridge Road
Burton, C., Oakfield Street
Davies, D. J., Crewys Road
Davies Bros., Fanny Street, Cathays
Davies, D., Catherine Street
Davies, D., 161, Castle Road
Day, R., 30, Mount Stuart Square
Dunn, C. C., Cowbridge Road
Gibbon, H., 185, Richmond Road
Gough, T., Oxford Lane, Roath
Haines, J., Cowbridge Road, Canton
Hallett, J., Partridge Road
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Mildon, S., 208, Clive Street, Grange Town
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Price, R., 1, Tresilian Ter., Penarth Road
Purnell, L. & F., Galston Street
Shepton, S. & Son, 15, Sandon Street
Shepherd, C. & Son, Croft Street, Roath
Smith, R., 44, Oakfield Street, Roath
Symonds, W., Rectory Road, Canton
Thomas, W., Adamsdown Square
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Thomas, J., Charles Street
Turner, E. & Sons, Grangetown
Walker, T. A., 94, St. Mary Street

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LLANDAFF.
Cox, T & W.

MAESTEG, BRIDGEND.
Evans, E.

MERTHYR VALE.
Rees, T.

NEATH
Baster, G, Albert Terrace
George, A., Windsor Terrace
Howell, J, Windsor Terrace
Palmer, G, Windsor Road
Thomas, B., Alfred Street

PENCOED.
Griffiths & Matheson

PONTYGYMMER, near BRIDGEND
Francis, W.

PONTYPRIDD.
Griffiths, G.
Griffiths, D, Gellewastad
Jones, D, 141, Wood Road
King, F, The Grove
Phillips, W. W., Haford, near Pontypridd
Rowlands, D., The Grove
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Williams, W., Gellerwastad

PORTH.
Jenkins, C & Sons

PONTYCLOWN.
Morgan, J.

PORT TALBOT.
Rees Bros, Aberavan

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Thomas, E.

SWANSEA
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Jenkins Bros., Beach Street
Marles, J
Walkins & Jenkins, Brunswick Timber Yard

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Parry, W
Richards, A.

TONYPANDY.
Knill, H
Morgan & Williams

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Edwards, Bros.

YSTALAFERA.
Rees, D.

MERIONETHSHIRE.

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Roberts, R

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Edwards D, Marine Parade
Jones, H., Porkington Terrace
Jones & Adams, High Street
Owen, O, Marine Terrace
Williams, W., Porkington Terrace

CORWEN.
Lloyd, R. High Street

CYNWIYD.
Willnow, T

DYFFRYN.
Thomas, D., Dolgan

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Jones & Smith (Masons and Builders)
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Thomas, J., (Mason and Builder)
Williams H, Penbryn Road
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Williams & Jones (Slaters and Plasterers)
Williams J. (Slater and Plasterer)

HARLECH.
Evans, R.

LLANBEDO.
Evans, H.

TOWYN
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Morgan, Bryncrevg

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Owen, O. R., Four Crosses

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Breeze, J, Lower Green

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Watkin, A., Timber Yard

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Rees & James, Llan Mul, near Narberth
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Frost, Bros.
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NAMES AND ADDRESSES OF ADDITIONAL BUILDERS IN WALES.

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Address Register of Manufacturers and Merchants.

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Abbott & Co., Newark-on-Trent
Abell, Charles, Hartshill Granite Quarries, near Atherstone
Aberdeen Granite Works (Macdonald & Co., Limited), Aberdeen
Acme Filter Co., Limited, 57, Dale End, Birmingham
Acme Machine Co., Henrietta Street, Glasgow
Acme Ventilating & Heating Co., 35, Tarleton Street, Liverpool
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Acton & Borman 72, Shoe Lane, E.C.
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Albo Carbon Light Co., Limited, 74a, James Street, Westminster S.W.
Aldin & Plater, 39a, Queen's-gate Gardens, W.
Aldous & Son, 18, Queen's Road, Peckham, S.E.
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Allen, Harrison, & Co. Cambridge Street Works, Manchester
Allen W. H. & Co. York Street Works, Lambeth, S.E.
Alley & Maclellan, Sentinel Works, Glasgow
Allpress & Belshaw, 3 and 4, St. Margaret's Offices, Victoria Street S.W.
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Andrew J. E. H. & Co. Limited, 80 Queen Victoria Street, E.C.
Angel A., 2, Drayton Gardens Fulham Road
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Appleby Bros., 22, Walbrook, E.C.

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Appleton, Burbey, & Williamson, Balmoral Buildings, 91, Queen Victoria Street, E.C.
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Avery, J., & Co., 81, Great Portland Street, W.
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Bailey & Co., Albion Works, Salford, Manchester
Baillie & Lutwyche, 187, Wardour Street, Oxford Street, W. — 160
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Balderston & Co., 201, St. Vincent Street, Glasgow
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Barr, James, Kilmarnock, N.B
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Barron & Son, Park Road, Bingley
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Barton & Ballard, 151, Oxford Street, W. 285
Barwell, J, 40, Great Hampton Street, Birmingham
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Baxendale & Co, Miller Street, Manchester
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Blackburn, J., Gresham Works, 111, Waterway Street, Nottingham 399
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Blackwall Galvanised Iron Co., Limited, Corbet Ct, E.C
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Cross Bros., 21, Working Street, Cardiff .. .. ..
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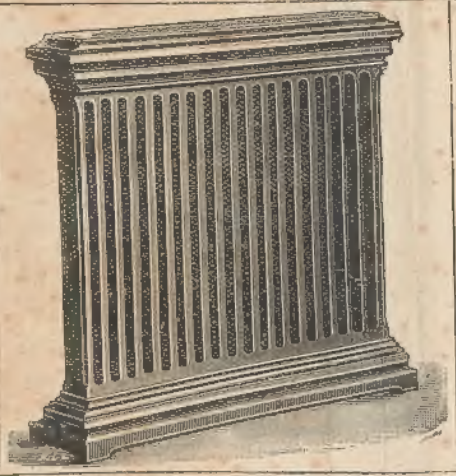

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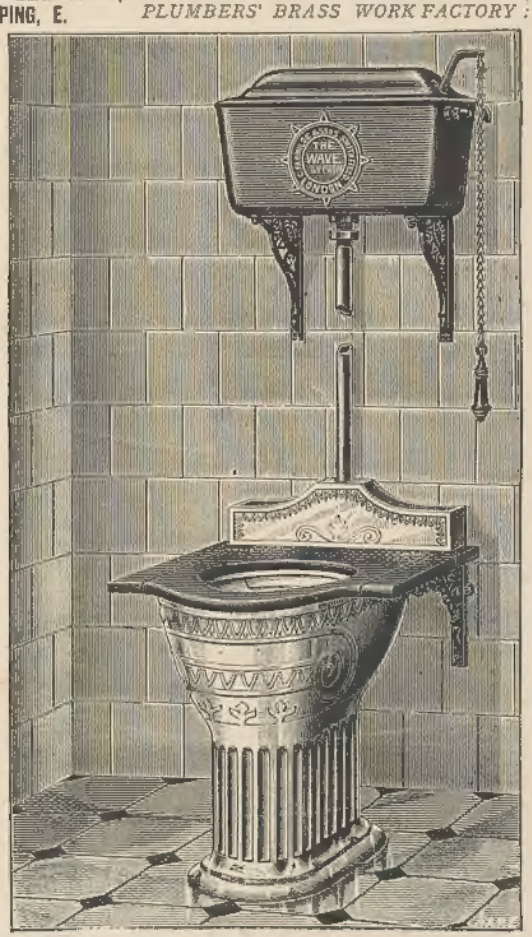

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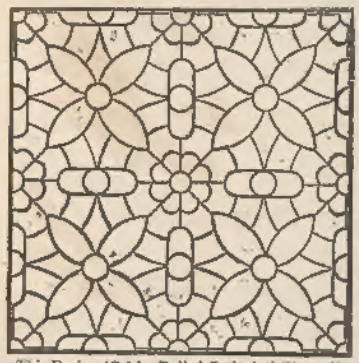

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